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May 5, 1989

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Final Screening Site Inspection
Revision 0
~~Cone Mills Corp.~~ White Oak Plant
Greensboro, Guilford County, North Carolina
TDD No. F4-8803-57

#2560

Dear Mr. Hanke:

Enclosed please find three (3) copies of the Final Screening Site Inspection Report, Revision 0, for Cone Mills Corp., White Oak Plant in Greensboro, Guilford County, North Carolina.

Mr. Tom Alspaugh, the plant manager of the Cone Mills White Oak Plant, requested a copy of the report. The following is the plant address:

Plant Manager: Mr. Tom Alspaugh
Address: Cone Mills Corp. - White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

Please contact me if you have any questions concerning this report.

Very truly yours,

Approved

Douglas M. Chatham
Project Manager

DMC/gwn

Enclosures (3)

**FINAL
SCREENING SITE INSPECTION REPORT
CONE MILLS CORPORATION, WHITE OAK PLANT
GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA
EPA ID #: NCD000776914**

2560

Prepared Under
TDD No. F4-8803-57
CONTRACT NO. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 2, 1989

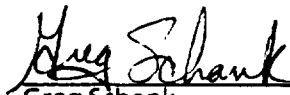
NUS CORPORATION
SUPERFUND DIVISION


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NOTICE

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EXECUTIVE SUMMARY

Cone Mills White Oak Plant is located inside the Greensboro city limits in Guilford County, North Carolina. The plant manufactures and dyes denim textiles. Wastewater from the dyeing operation is treated in a series of aeration basins and settling lagoons and the effluent is discharged into North Buffalo Creek, which flows from west to east through the middle of the facility. Chlorinated solvents were used in plant operations prior to 1982 with 15 gallons of waste solvent per week discharged to the plant's wastewater treatment system under an NPDES permit.

Cone Mills White Oak Plant is located in the Carolina Slate Belt region of the Piedmont Physiographic Province. The potentially affected aquifer is a surficial aquifer consisting of fractured igneous bedrock covered by a thin layer of regolith. The aquifer at the facility is about 30 feet below land surface and ranges from 35 to 80 feet thick.

There are 238 residences (660 persons) in the areas 2.5 - 4 miles north of the plant outside of Guilford County's water service area. There are also 75 persons served by the Memorial Presbyterian Church well approximately 2 miles north from the site. No water intakes, sensitive environments, or critical habitats were found within 15 stream miles of the site.

Analytical results of sample data from this investigation showed no contamination attributable to the facility.

Based on the target survey results FIT 4 recommends that no further remedial action be planned for the site.

1.0 INTRODUCTION

The NUS Corporation Region IV Field Investigation Team (FIT) was tasked by the U. S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Screening Site Inspection (SSI) at the Cone Mills Corporation, White Oak Plant in Greensboro, Guilford County, North Carolina. The investigation was performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task was performed to satisfy the requirements stated in Technical Directive Document (TDD) Number F4-8803-57. The field investigation was conducted on August 22, 1988.

1.1 OBJECTIVE

The objectives of this investigation were to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this investigation sought to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the site.

1.2 SCOPE OF WORK

The objectives were achieved through the completion of a number of specific tasks. These activities were to:

- obtain and review relevant background materials,
- obtain information on local water systems,
- evaluate target populations within a 4-mile radius of the site with regard to groundwater use,
- determine location and distance to nearest potable well,
- evaluate target populations within 15 stream miles with regard to surface water use

- develop a site sketch drawn to scale, and
- collect six environmental samples consisting of sediment and surface water samples.

2.0 SITE CHARACTERIZATION

2.1 SITE BACKGROUND AND HISTORY

Since 1896, the Cone Mills Corporation, White Oak Plant, has produced textiles, from the fiber phase through the finishing of broad-woven fabrics (Refs. 1, 2, 25). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 3) and waste solvent was discharged to the plant's wastewater treatment system. Dye wastes (possibly containing metals) and/or solvents were reported in the Preliminary Assessment (Ref. 4) to have been disposed of on site through burial and/or land application. Hazardous wastes, including a small amount of PCB, from other Cone Mills plants were reported to have been stored at the White Oak Plant (Refs. 5, 6).

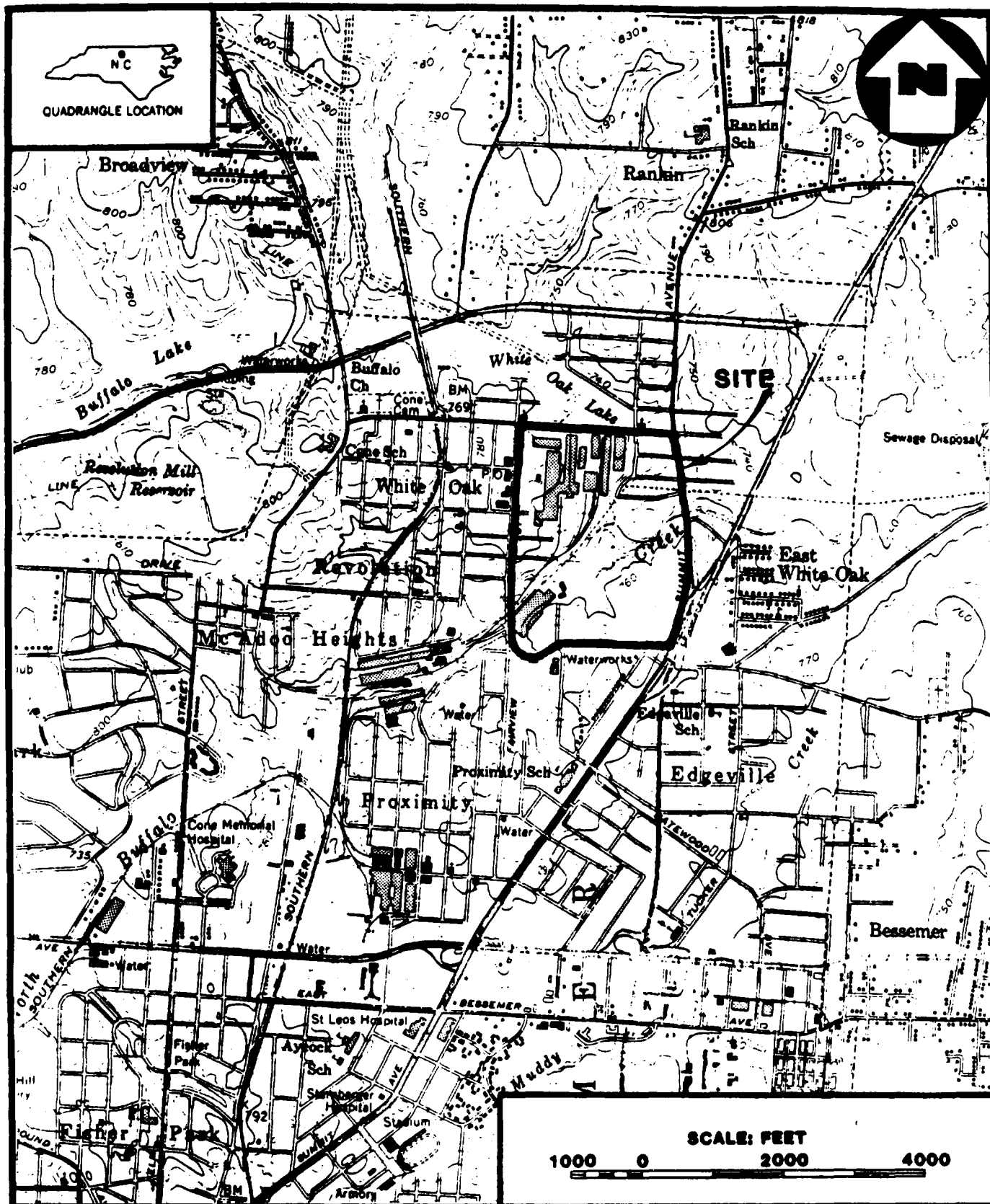
Since at least 1973, the facility has held an NPDES permit; permit conditions were apparently violated in 1973 or 1974 (Ref. 1). Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility and reported 24,000 pounds per year of ignitable wastes (Ref. 7). The facility's status was changed from "generator and storer" to "generator only" in 1983, and its interim status was withdrawn (Refs. 8, 9). Its status was changed to "small quantity generator" in 1985 (Ref. 10).

2.2 SITE DESCRIPTION

2.2.1 Site Features

Cone Mills White Oak Plant is 2200 feet wide, from east to west, and 3030 feet long, from north to south. The plant is located inside the Greensboro city limits (Refs. 7, 11). The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 12, Appendix A). The site location is shown in Figure 1 and the site layout is shown in Figure 2.

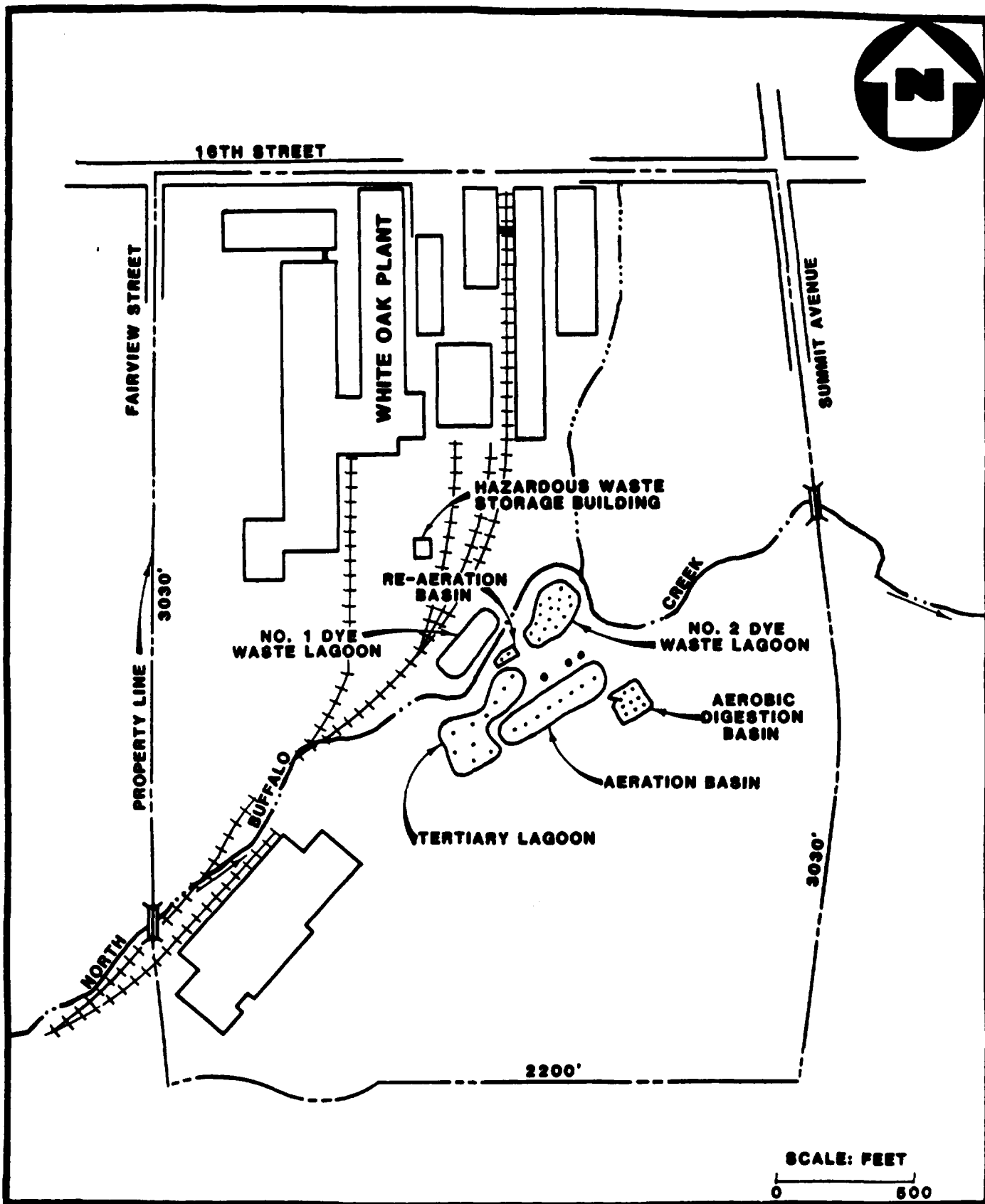
The plant is bounded on the west by Fairview Street, on the north by 16th Street, on the east by Summit Avenue, and on the south by the Guilford County waterworks. North Buffalo Creek enters the facility approximately 600 feet north of the southwest corner of the property on Fairview Street. The creek leaves the property approximately 1200 feet south of the intersection of 16th Street and Summit Avenue.



BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE GREENSBORO, NORTH CAROLINA, 1968.

**SITE LOCATION MAP
CONE MILLS CORPORATION
GREENSBORO, (GUILFORD COUNTY)
NORTH CAROLINA**

FIGURE 1



**SITE LAYOUT MAP
CONE MILLS CORPORATION
GREENSBORO, GUILFORD COUNTY
NORTH CAROLINA**

FIGURE 2

The seven buildings of the operating plant are located north of the creek. An old building is located just south of the creek in the southwest corner of the property. The dye-waste treatment plant is located in the middle of the property just south of the creek.

The site is not easily accessible from the roads around the plant since there are fences and gates at all entrances. However, the site, specifically the dye-waste treatment area, is easily accessible by foot from the Summit Avenue side along North Buffalo Creek.

2.2.2 Waste Characteristics

Cone Mills uses indigo and sulfur dyes to dye denim fabric. The waste solutions from these dye operations are treated in a series of aeration ponds and lagoons to reduce the biochemical oxygen demand (BOD). The effluent from the wastewater treatment system is discharged into North Buffalo Creek at a point close to the No. 2 lagoon. Chlorinated solvents used in plant operations prior to 1982 (Ref. 3) were discharged to the plant's wastewater treatment system at a rate of approximately 15 gallons of waste solvent per week (Ref. 1). The principal contaminants expected from plant processes are chromium from the dyeing processes and chlorinated solvents, which were used as degreasers for equipment and maintenance.

3.0 REGIONAL POPULATIONS AND ENVIRONMENTS

3.1 POPULATION AND LAND USE

3.1.1 Demography

The area surrounding the site is urban and primarily residential. The total population within a 4-mile radius of the site 92,950. The population distribution shows that the population is 464 between 0 and one-quarter mile; 848 between one-quarter and one-half mile; 6690 between one-half and 1 mile; 25,067 between 1 and 2 miles; 25,203 between 2 and 3 miles; and 34,678 between 3 and 4 miles (Ref. 13).

3.1.2 Land Use

The area around the site is primarily residential. The area south of the facility is commercial/industrial/residential, while the area to the north is primarily residential or wooded. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately 1 mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 12, Appendix A).

The USGS Topographic Quadrangle maps (Appendix A) show three schools and one church within 1 mile of the center of the site. There are three schools, three churches, three hospitals, a country club, and a stadium between 1 and 2 miles from the plant. There are numerous schools, colleges, hospitals, and churches, and several recreational areas, such as golf courses between 2 and 4 miles from Cone Mills, principally south and southwest from the plant.

3.2 SURFACE WATER

3.2.1 Climatology

Guilford County is hot and generally humid in summer because of its moist, maritime air. Winter is moderately cold but short. The mean annual temperature is 58°F, and the average humidity is about

70 percent. The daily average temperature ranges from 38° to 77°F. Precipitation is quite evenly distributed throughout the year with 52 percent falling during the period April through September. The mean annual precipitation is about 42 inches and ranges from 38 to 46 inches. Average seasonal snowfall is 11 inches (Ref. 14).

3.2.2 Overland Drainage

North Buffalo Creek flows from west to east through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 12, Appendix A). The 15-mile extended pathway continues downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Appendix A).

3.2.3 Potentially Affected Water Bodies

North Buffalo Creek and Buffalo Creek are apparently not used for recreation. According to David Moorefield, Guilford County Water and Sewer Department, there are no water supply intakes located within 15 miles downstream from the facility (Ref. 15).

3.3 GROUNDWATER

3.3.1 Regional Aquifer Description

Cone Mills Corporation is located in the Carolina Slate Belt region of the Piedmont Physiographic Province (Ref. 17, p. 18; p. 6; 19, p. 329). It is underlain by weathered and fractured crystalline rock ranging in age from 520 to 650 million years (Ref. 18, p. 9; 20). These rocks are exposed in low, rounded hills and long northeast-southwest trending ridges. Erosion and downcutting by streams has formed these features and created a local topographic relief of 100 to 200 feet between ridge tops and stream bottoms. Summit altitudes are as high as 900 feet in the area (Ref. 18, p. 6). The principal source of groundwater in northern Greensboro is the igneous bedrock, which immediately underlies a thin layer of regolith.

Private well owners rely on fractures in crystalline rock for the transmission of groundwater to their wells. Mafic volcanic rock, the rock type in the area with the highest degree of fracturing, underlies the site (Ref. 18, p. 9). Not all parts of the study area, however, are underlain by mafic volcanics. Numerous private wells are completed in mica schist and mica gneiss within a 4-mile radius. Yields

associated with these rocks are low. A common range for wells completed in mica schist is 6 to 25 gallons per minute (gpm). Their depths range from 125 to 225 feet bls (Ref. 22).

3.3.2 Hydrogeology

Stratigraphy of the North Carolina Piedmont consists of folded and faulted igneous and metamorphic rock overlain by regolith. In many valleys of the Piedmont, the regolith has been eroded and bedrock is exposed or thinly covered by alluvial deposits (Ref. 18, pp. 6, 8). Bedrock in the vicinity is composed of mafic volcanic rock of Cambrian age (Ref. 18, p. 9). Additionally, rocks such as granite, gneiss, and schist are present. The folding and faulting of the bedrock has resulted in numerous fractures and joints which act as conduits for groundwater movement (Ref. 18, pp. 6, 8).

Principal components of the groundwater system at the site are illustrated in Figure 3. Groundwater is stored in the regolith and bedrock. Because of its high storage capacity, the regolith acts as a reservoir which slowly feeds water downward into the bedrock (Figure 4). Bedrock material has a much lower porosity and water is stored in planar openings which have developed as a result of fracturing. Depth to bedrock ranges from 65 to 110 feet bls (Ref. 22). Elevation of the water table at the facility is approximately 30 feet below land surface (bls).

The groundwater system at Cone Mills Corporation is probably dominated by water-table conditions. Even though there are no known continuous confining beds, local confinement is presumed to exist. Degree of local confinement is a function of the clay content of the saprolite overlying the bedrock.

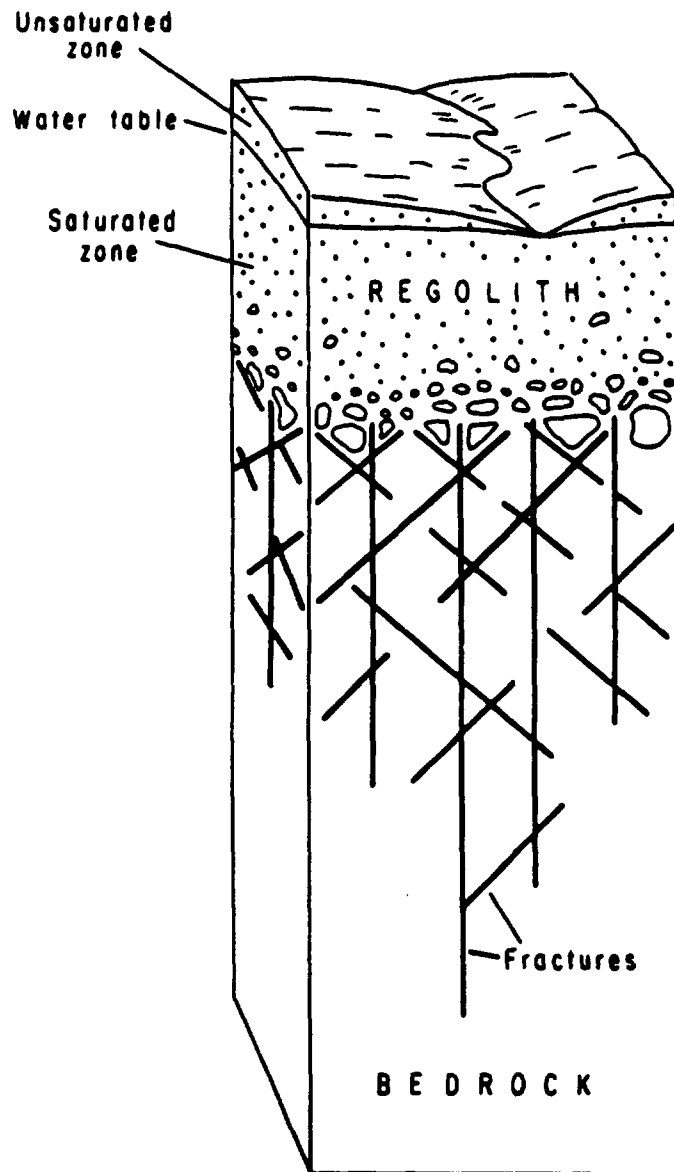
3.3.3 Aquifer Use

Within a 4-mile radius of the facility, 238 private wells produce groundwater from fractured bedrock. The closest well to the facility is located at the Memorial Presbyterian Church, approximately 10,000 feet to the north; it serves approximately 75 persons. The water supply for the Guilford County Water system is obtained from Lakes Townsend, Higgins, and Brandt, which are 4 miles north of the site (Refs. 2, 5).

3.4 SUMMARY OF POTENTIALLY AFFECTED POPULATIONS AND ENVIRONMENTS

The air pathway is not of concern since there were no contaminants found that could be transported by air either as a gas or airborne dust.

The surface water pathway is not of concern since there are no water intakes, sensitive environments, or critical habitats within 15 stream miles of the site. Groundwater is the only pathway of concern, although there is no significant use of groundwater within the 1- or 2-mile radius. A house count of the areas north of the site which are outside Guilford County water service area and between 2.5 and 4 miles revealed a total of 238 residences (including 25 trailers) (Ref. 23).

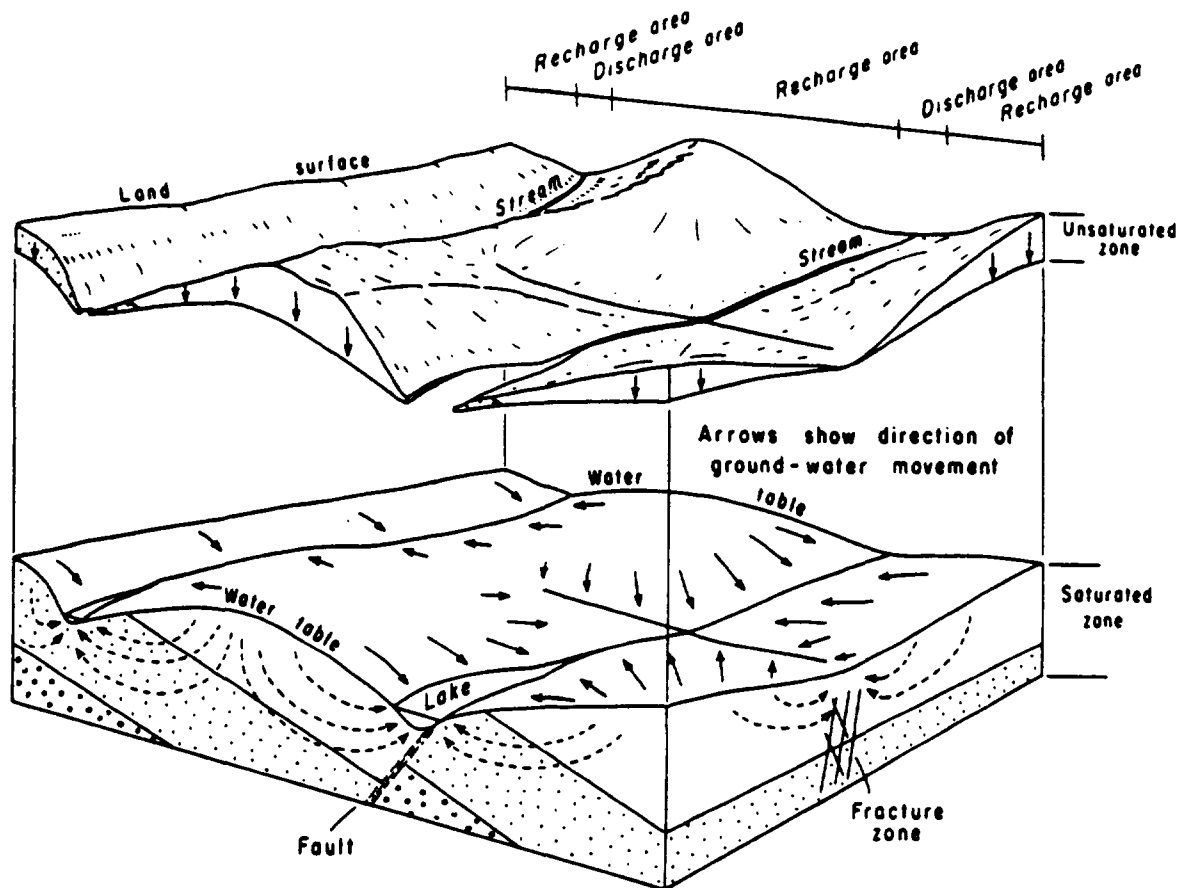


The regolith has 20 to 50 times the water storing capacity of the bedrock

Open fractures are scarce below 400 feet

PRINCIPAL COMPONENTS OF THE GROUNDWATER SYSTEM IN THE PIEDMONT AND BLUE RIDGE PROVINCES IN NORTH CAROLINA (REPRINTED FROM REF. 19)

FIGURE 3



CONCEPTUAL VIEW OF THE UNSATURATED ZONE (LIFTED UP), THE WATER-TABLE SURFACE AND THE DIRECTION OF GROUNDWATER FLOW FOR A TYPICAL AREA IN THE PIEDMONT AND BLUE RIDGE PROVINCES OF NORTH CAROLINA (REPRINTED FROM REF. 19)

FIGURE 4

4.0 FIELD INVESTIGATION

4.1 SAMPLE COLLECTION

The field investigation consisted of the collection of six environmental samples. These consisted of three sediment samples and three surface water samples from upgradient, midstream, and downgradient locations of North Buffalo Creek. Sample locations are shown in Figure 5 and described in Table 4-1.

4.1.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.

4.1.2 Duplicate Samples

Cone Mills requested duplicates of all samples taken on company property and supplied their own bottles for this purpose. The samples were accepted by Mr. Arthur J. Toompas of Cone Mills.

4.1.3 Description of Samples and Sample Locations

Samples CM-SW-01 and CM-SD-01 were surface water and sediment samples taken from North Buffalo Creek at the Fairview Street bridge where the creek enters the Cone Mills property. These samples were taken as background, upstream samples.

Samples CM-SW-02 and CM-SD-02 were surface water and sediment samples taken from North Buffalo Creek about 10 feet downstream of the effluent pipe of Cone Mills waste treatment plant. This onsite location was considered to be the most likely place to find contaminants, if any, which might have been disposed of in the dye-waste treatment plant.

Samples CM-SW-03 and CM-SD-03 were surface water and sediment samples taken from North Buffalo Creek at the Summit Avenue bridge where the creek exits Cone Mills property. These downstream samples were taken to show whether or not contaminants were being transported off of Cone Mills property.

4.1.4 Field Measurements

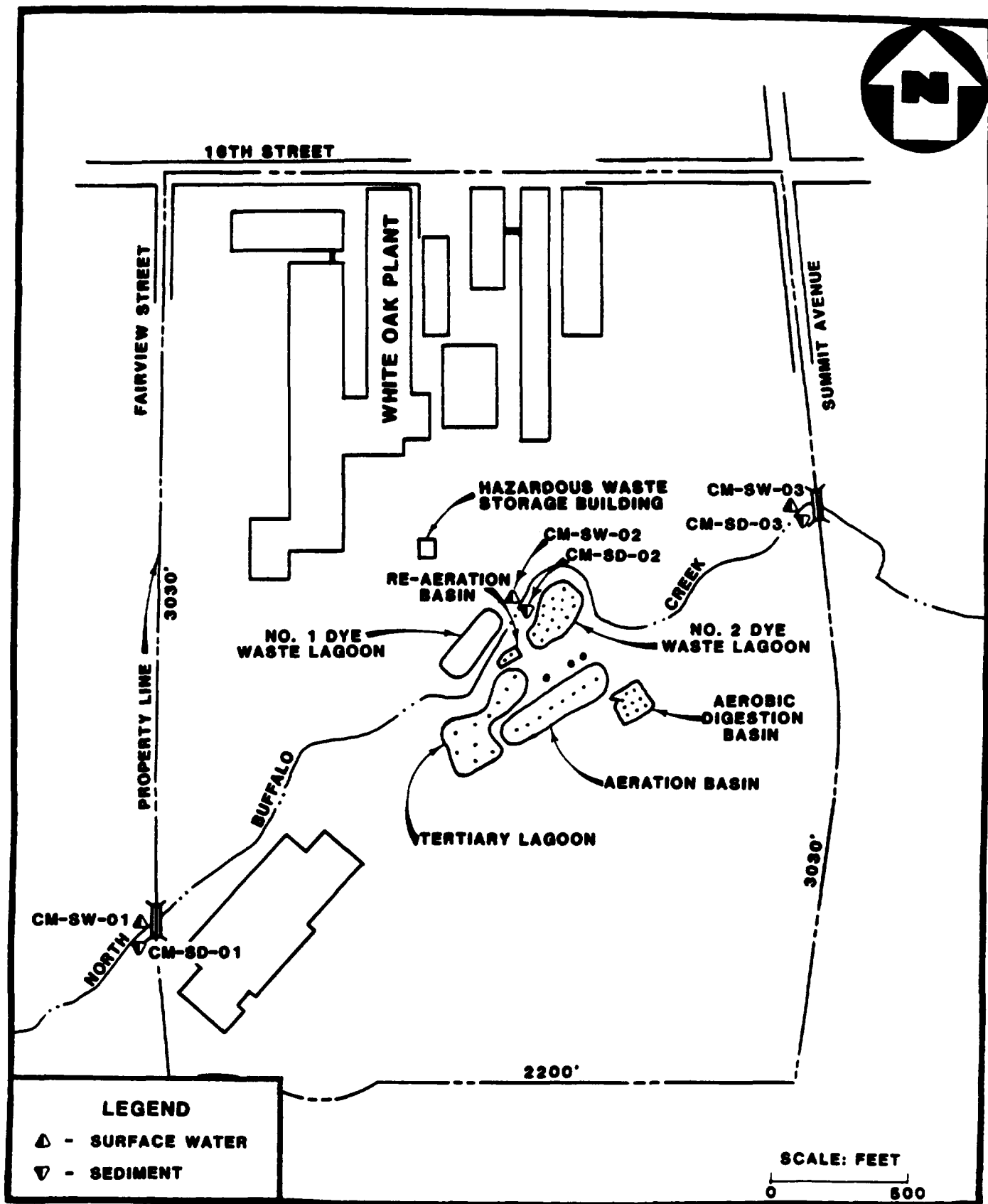
Field measurements on the water samples collected during this investigation consisted of time, date of collection, temperature, pH, and conductivity. These data are listed in Table 4-1. Field measurements for the sediment samples consisted of time and date of collection and are also presented in Table 4-1.

4.2 SAMPLE ANALYSIS

4.2.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all parameters listed in the Target Compound List (TCL). Organic analysis of soil and water samples was performed by the USEPA Environmental Services Division in Athens, Georgia. Inorganic analysis of soil and water was performed by JTC Environmental Consultants.

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual, United States Environmental Protection Agency, Region IV, Environmental Services Division, revised June 1, 1985; or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.



**SAMPLE LOCATIONS MAP
CONE MILLS CORPORATION
GREENSBORO, GUILFORD COUNTY,
NORTH CAROLINA**

FIGURE 5

TABLE 4-1
SAMPLE CODES, DESCRIPTIONS, AND FIELD MEASUREMENTS
CONE MILLS-WHITE OAK PLANT
GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA

SAMPLE CODE	DESCRIPTION	COLLECTION DATE	COLLECTION TIME	pH	CONDUCTIVITY (umhos/cm)	TEMP. (°C)
CM-SW-01	N. Buffalo Creek upstream surface water sample taken at Fairview Street bridge	8/22/88	1025	5.0	127	24
CM-SW-02	N. Buffalo Creek onsite surface water sample taken 10 feet downstream of No. 2 dye-waste lagoon discharge	8/22/88	1130	5.5	849	25
CM-SW-03	N. Buffalo Creek downstream surface water sample taken at Summit Avenue bridge	8/22/88	1215	5.0	369	25
CM-SD-01	N. Buffalo Creek upstream sediment sample taken at Fairview Street bridge	8/22/88	1030	NA	NA	NA
CM-SD-02	N. Buffalo Creek onsite sediment sample taken 10 feet downstream of No. 2 dye-waste lagoon discharge	8/22/88	1135	NA	NA	NA
CM-SD-03	N. Buffalo Creek downstream sediment sample taken at Summit Avenue bridge	8/22/88	1220	NA	NA	NA

NA - Not applicable

4.2.2 Analytical Data Quality

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines. As shown in the tables, some of the organic and inorganic parameters were assigned estimated concentrations. This means that the qualitative analysis was acceptable, but the reported concentration should not be considered accurate. A few other compounds were noted as being detected based on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as a positive identification as to its presence. The complete analytical data sheets are provided in Appendix B.

4.2.3 Presentation of Analytical Results

Sample analyses detected numerous inorganic constituents in the water and sediment samples. Numerous organic constituents were detected in the sediment samples but very few in the water samples. Analytical results can be found in Tables 4-2, 4-3, 4-4, and 4-5 and sample code, description and collection data can be found in Table 4-1.

The principal contaminants attributable to the plant processes are chromium since chromium compounds are used in textile-dyeing processes and chlorinated solvents since Cone Mills reportedly used chlorinated solvents as degreasers for equipment and maintenance .

Chromium was detected in the midstream water sample (CM-SW-02) at 10 ug/l and in the downstream water sample (CM-SW-03) at 34 ug/l. The midstream result is only slightly above the detection limit of 8 ug/l established by the upstream sample. Copper was slightly elevated in the midstream sample at 150 ug/l, which is more than three times the levels of copper found in the upstream water sample (CM-SW-01) of 38 ug/l. The copper results are estimated values. Arsenic was detected in the midstream and downstream samples at 24 and 10 ug/l respectively. The midstream result is more than three times the detection limit of 6 ug/l established by the upstream sample.

Chloroform was detected in the midstream and downstream water samples at 1.0 and 0.89 ug/l, respectively. These results are much less than the detection limit of 5.0 ug/l established by the upstream sample and are estimated values.

TABLE 4-2

SUMMARY OF ORGANIC ANALYTICAL RESULTS
 SURFACE WATER SAMPLES
 CONE MILLS - WHITE OAK PLANT
 GREENSBORO, NORTH CAROLINA

PARAMETERS (ug/l)	Upstream	Midstream	Downstream
	SW-01	SW-02	SW-03
PURGEABLE COMPOUNDS			
CHLOROFORM	-	1J	0.89J
TOLUENE	1.5J	-	-
EXTRACTABLE COMPOUNDS			
SIMAZINE	-	-	2JN
UNIDENTIFIED COMPOUNDS/NO.	20J/1	-	-
PESTICIDE/PCB COMPOUNDS			
DELTA-BHC	-	0.051J	-

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material

TABLE 4-3

**SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE WATER SAMPLES
CONE MILLS - WHITE OAK PLANT
GREENSBORO, NORTH CAROLINA**

PARAMETERS (ug/l)	Upstream	Midstream	Downstream
	SW-01	SW-02	SW-03
ALUMINUM	320	-	360
ARSENIC	-	24	10
BARIUM	21	22	84
CADMIUM	-	-	13
CALCIUM	12,000	12,000	12,000
CHROMIUM	-	10	34
COBALT	-	-	57
COPPER	38J	150J	49J
IRON	810	540	700
LEAD	9J	4.7J	8.4J
MAGNESIUM	2300	2800	3000
MANGANESE	-	260	160
POTASSIUM	-	20,000	9000
SELENIUM	-	9	-
SODIUM	-	98,000	43,000
VANADIUM	22	-	50

- Material analyzed for but not detected above minimum quantitation limit
J Estimated value

TABLE 4-4

**SUMMARY OF INORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
CONE MILLS - WHITE OAK PLANT
GREENSBORO, NORTH CAROLINA**

PARAMETERS (mg/kg)	Upstream	Midstream	Downstream
	SD-01	SD-02	SD-03
ALUMINUM	14,000	3600	3900
ARSENIC	-	2.2	3.7
BARIUM	84	40	14
CALCIUM	1500	-	850
CHROMIUM	40J	46J	36J
COBALT	13	23	6
COPPER	86	24	9.7
IRON	21,000	11,000	9100
LEAD	57	30	25
MAGNESIUM	2100	650	1500
MANGANESE	320	130	85
NICKEL	12	17	11
VANADIUM	77	38	27
ZINC	91	62	79

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value

TABLE 4-5

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
CONE MILLS - WHITE OAK PLANT
GREENSBORO, NORTH CAROLINA**

PARAMETERS (ug/kg)	Upstream	Midstream	Downstream
	SD-01	SD-02	SD-03
PURGEABLE COMPOUNDS			
1,1-DICHLOROETHANE	-	5.4J	-
TOLUENE	11J	3.6J	8J
METHYL ETHYL KETONE	22J	-	-
EXTRACTABLE COMPOUNDS			
ACENAPHTHYLENE	-	-	120J
PHENANTHRENE	-	1200J	3000
ANTHRACENE	-	300J	400J
FLUORANTHENE	430J	1200J	5100
PYRENE	390J	960J	4400
BIS(2-ETHYLHEXYL) PHTHALATE	-	310J	-
BENZO(A)ANTHRACENE	210J	650J	2800
CHRYSENE	270J	650J	3000
BENZO(B AND/OR K)FLUORANTHENE	-	1110J	5600
BENZO-A-PYRENE	-	630J	2800
INDENO (1,2,3-CD) PYRENE	-	-	1600
BENZO(GHI)PERYLENE	-	-	1500J
CARBAZOLE	-	-	200JN
CYCLOPENTAPHENANTHRENE	-	-	400JN
BENZONAPHTHOFURAN	-	-	300JN/2
BENZANTHRACENONE	-	-	700JN/2
TRIPHENYLENE	-	-	600JN
METHYLBENZANTHRACENE	-	-	900JN/3
METHYLPHENANTHRENE	-	-	400JN/2
PHENANTHRENE DIONE	-	-	300JN
METHYLFLUORANTHENE	-	-	1000JN/4
BENZONAPHTHOTHIOPHENE	-	-	400JN
BENZOFLUORANTHENE	-	300JN	3000JN/3
SIMAZINE	-	-	-
PESTICIDE/PCB COMPOUNDS			
DIELDRIN	-	3.6J	-
4,4'-DDE (P,P'-DDE)	3J	-	-
4,4'-DDD (P,P'-DDD)	4.5J	4.6J	-
GAMMA-CHLORDANE /2	5.3	6.3	15
ALPHA-CHLORDANE /2	2.1	2.7	1.5J

- Material analyzed for but not minimum quantitation limit
J Estimated value
N Presumptive evidence of presumptive of material

Other elements detected in the midstream and downstream samples but not in the upstream sample are, manganese (260 and 160 ug/l, resp.), potassium (20,000 and 9,000 ug/l, resp.), and sodium (98,000 and 43,000 ug/l, resp.). The potassium and sodium levels detected in the midstream and downstream samples are much greater than the detection limit or the value for the upstream (background) sample, though they are not considered a threat to public health.

Arsenic and cadmium were the only elements detected in the midstream sediment sample (CM-SD-02) that were not detected in the upgradient sediment sample (CM-SD-01). The concentrations of those elements (2.2 and 3.0 mg/kg, resp.) are just slightly more than the detection limits.

There were several polynuclear aromatic hydrocarbons found in all three sediment samples in increasing numbers and increasing concentrations from upgradient to downgradient sample locations. These cannot be attributed to current plant operations. One possible explanation is a railroad spur which runs along North Buffalo Creek into the plant. The spur line enters the plant at the southwest corner, follows the southern bank of the creek to nearly the middle of the property, and curves north crossing the creek to the north side.

4.3 SUMMARY OF FIELD INVESTIGATION

The field investigation consisted of the collection of six environmental samples, which included samples of creek sediment and surface water. Samples were collected upstream, downstream, and midstream (onsite).

Inorganic data for the surface water showed a slight elevation of chromium copper, and arsenic above the background. These results are greater than three times the background or detection limits. Chromium, copper, and arsenic are most likely due to wood preservative leaching from railroad ties and cannot be attributed to plant operations. Potassium and sodium were found at higher concentrations than in the upstream (background) sample. A number of inorganic constituents were found in the sediment samples, none of which could be attributed to the site.

Organic data for the water samples showed a small estimated quantity of chloroform in the midstream and downgradient samples. These results are inconclusive since they are significantly less than the background detection limit. Organic data for the sediment samples showed several polynuclear aromatic compounds, which could not be attributed to plant operations.

5.0 SUMMARY

Groundwater is the only pathway of concern. There is no significant use of groundwater within the 1- or 2-mile radius. However, a house count of the areas north of the site (in the 2- to 4-mile radius), which are outside the Guilford County water service area, revealed a total of 238 residences, or estimated 904 people, who rely on private wells (Ref. 23).

The field investigation consisted of the collection of six environmental samples from North Buffalo Creek, which runs through the center of the Cone Mills/White Oak Plant facility. The samples consisted of surface water/sediment pairs collected at upstream, onsite (midstream), and downstream locations. Copper and arsenic were detected in the onsite and downstream samples and chromium was detected in the downstream sample at concentrations greater than background or detection limits. Copper, chromium, and arsenic are components of chromated copper arsenate wood preservative which could be leaching from railroad ties and cannot be attributed to plant operations. Based on the results of this investigation FIT 4 recommends that no further remedial action be planned for the site.

REFERENCES

1. S. Phibbs, Solid and Hazardous Waste Management Branch, State of North Carolina, RCRA Inspection Checklist: Generators Checklist for Cone Mills-White Oak, June 23, 1981.
2. Harper J. Elam, III, Vice President and General Counsel, USEPA General Information form, Consolidated Permits Program, for Cone Mills Corporation, White Oak Plant, Greensboro, N.C., November 17, 1980.
3. Steve Phibbs, District Sanitarian, North Central Regional Office, memorandum to O.W. Strickland, Head, Solid and Hazardous Waste Management Branch, State of N.C. Re: Hazardous Waste Inspection, Cone Mills-White Oak Plant. September 23, 1982.
4. Lee Crosby, N.C. Division of Health Services, USEPA Potential Hazardous Waste Site, Preliminary Assessment for Cone Mills Corporation-White Oak Plant. January 8, 1985.
5. William Paige, Environmental Chemist, Solid and Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation, White Oak Plant. Re: Listing of Hazardous Waste Activities. August 18, 1981.
6. T. A. Alspaugh, Manager, Water & Air Resources, Cone Mills Corporation, letter to William Paige, Solid and Hazardous Waste Management Branch, State of N.C., Re: PCB Transformer Blowup, Cone Mills Corporation, Salisbury, N.C. August 5, 1981.
7. Harper J. Elam, III, Vice President and General Counsel, USEPA Hazardous Waste Permit Application for Cone Mills Corp. - White Oak Plant, November 17, 1980.
8. T.A. Alspaugh, Manager, Water & Air Resources, Cone Mills Corporation, letter to Thomas C. Karnoski, Environmental Engineer, Solid & Hazardous Waste Management Branch. Re: Hazardous Waste Management Permit Application, Cone Mills Corporation, White Oak Plant, February 28, 1983.

9. O.W. Strickland, Head, Solid & Hazardous Waste Management Branch, State of N.C., letter to Tom A. Alspaugh, Cone Mills White Oak Plant, Re: Termination of interim status for the White Oak Plant, July 25, 1983.
10. Keith Lawson, Environmental Chemist, Solid & Hazardous Waste Management Branch, State of N.C., letter to T.A. Alspaugh, Cone Mills Corporation, Re: Change in RCRA status for the White Oak Plant, April 29, 1985.
11. Map of City of Greensboro, North Carolina, 1985.
12. NUS Corporation Field Logbook No. F4-791 and photographs for Cone Mills, White Oak, Greensboro, N.C., TDD No. F4-8803-58. Offsite Reconnaissance and target survey, April 19, 1988.
13. U.S. Environmental Protection Agency, Graphical Exposure Modeling System (GEMS) data base, compiled from U. S. Bureau of the Census data, (1980).
14. United States Dept. of Agriculture, Soil Conservation Service, "Soil Survey of Guilford County, North Carolina," (1977).
15. David Moorefield, Water Administration, Guilford County Water and Sewer Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Use of North Buffalo Creek and Buffalo Creek, May 26, 1988.
16. Blue Print of Dye Waste Disposal Plant, Cone Mills Corporation, White Oak Plant, May 2, 1979.
17. Charles C. Daniel, III, "Statistical Analysis Relating Well Yield to Construction Practices and Siting of Wells in the Piedmont and Blue Ridge Provinces of North Carolina," Water Resources Investigations Report 86-4132, (Raleigh, North Carolina, U.S. Geological Survey, 1987).
18. Charles C. Daniel, III and N. Bonar Sharpless, North Carolina Department of Natural Resources and Community Development, "Groundwater Supply Potential and Procedures for Well Site Selection: Upper Cape Fear River Basin," (Raleigh, North Carolina, October 1983).
19. U.S. Geological Survey, "National Water Summary 1984: Hydrologic Events, Selected Water Quality Trends and Groundwater Resources," (Washington, D.C., 1985), pp. 329-334.

20. North Carolina Department of Natural Resources and Community Development, Geologic Map of North Carolina, Scale 1:500,000, Raleigh, North Carolina, 1985.
21. U.S. Department of Commerce, Climatic Atlas of the United States, Washington, D.C., GPO, June, 1968; Reprint: National Oceanic and Atmospheric Administration, 1983.
22. Sam Bainbridge, Bainbridge and Dance Drillers, Well Records for Brooks Lumber and Robert Beer wells, 1978.
23. NUS Corporation Field Logbook No. F4-1007 for Cone Mills, White Oak Plant, TDD No. F4-8803-57, Documentation of Site Investigation, August 22, 1988.
24. Don Grubbs, Guilford County Water Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Water supply in the Greensboro, N.C. area. May 9, 1988.
25. Tom Alspaugh, Manager, Water & Air Resources, Cone Mills Corporation, Personal Communication with Doug Chatham, NUS Corporation. Re: Years of operation of the White Oak Plant. January 26, 1989.

APPENDIX A
TOPOGRAPHIC MAP

OVERSIZED

DOCUMENT

MAP

APPENDIX B
SAMPLE ANALYSES DATA

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29188 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE.NO.: 10258 SAS NO.: D. NO.: MD NO: L082 **

RESULTS UNITS PARAMETER
0.01UJ MG/L CYANIDE

REMARKS

RECOMMENDED HOLDING TIME EXCEEDED-HG
HOLDING TIME EXCEEDED-CN

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29190 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-02 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NO.: 10258 SAS NO.: D. NO.: MD NO: L084 **
**

RESULTS UNITS PARAMETER
0.01UJ MG/L CYANIDE

REMARKS

RECOMMENDED HOLDING TIME EXCEEDED-HG
HOLDING TIME EXCEEDED-CN

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

```
***
** PROJECT NO. 88-584   SAMPLE NO. 29192   SAMPLE TYPE: SURFACEWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-03   COLLECTION START: 08/22/88   STOP: 00/00/00   **
** CASE NO.: 10258   SAS NO.:   D. NO.:   MD NO: L086   **
**
***
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```
RESULTS   UNITS   PARAMETER
0.01UJ    MG/L    CYANIDE
```

REMARKS

RECOMMENDED HOLDING TIME EXCEEDED-HG
HOLDING TIME EXCEEDED-CN

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29194 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: TB-01 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NO.: 10258 SAS NO.: D. NO.: MD NO: L081 **
**

RESULTS UNITS PARAMETER
0.010J MG/L CYANIDE

REMARKS

RECOMMENDED HOLDING TIME EXCEEDED-HG
HOLDING TIME EXCEEDED-CN

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29188 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SW-01 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L082
**

*** UG/L ANALYTICAL RESULTS ***		*** UG/L ANALYTICAL RESULTS ***	
320	ALUMINUM	110U	MANGANESE
580J	ANTIMONY	.2UR	MERCURY
6U	ARSENIC	30U	NICKEL
21	BARIUM	2000U	POTASSIUM
1U	BERYLLIUM	4U	SELENIUM
4U	CADMIUM	9U	SILVER
12000	CALCIUM	2900U	SODIUM
7U	CHROMIUM	1.7U	THALLIUM
8U	COBALT	NA	TIN
38J	COPPER	22	VANADIUM
810	IRON	40U	ZINC
9J	LEAD		
2300	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29190 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-02 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L084 **
**

UG/L ANALYTICAL RESULTS

170U ALUMINUM
580J ANTIMONY
24 ARSENIC
22 BARIUM
1U BERYLLIUM
4U CADMIUM
12000 CALCIUM
10 CHROMIUM
8U COBALT
150J COPPER
540 IRON
4.7J LEAD
2800 MAGNESIUM

UG/L ANALYTICAL RESULTS

260 MANGANESE
.2UR MERCURY
16U NICKEL
20000 POTASSIUM
9 SELENIUM
20U SILVER
98000 SODIUM
1.7U THALLIUM
NA TIN
14U VANADIUM
50U ZINC

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29192 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SW-03 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L086
**

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
360	ALUMINUM	160	MANGANESE
580J	ANTIMONY	.20R	MERCURY
10	ARSENIC	50U	NICKEL
84	BARIUM	9000	POTASSIUM
10U	BERYLLIUM	4U	SELENIUM
13	CADMIUM	20U	SILVER
12000	CALCIUM	43000	SODIUM
34	CHROMIUM	1.7U	THALLIUM
57	COBALT	NA	TIN
49J	COPPER	50	VANADIUM
700	IRON	40U	ZINC
8.4J	LEAD		
3000	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29194 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: TB-01 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L081
**

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
170U	ALUMINUM	20U	MANGANESE
580U	ANTIMONY	2UR	MERCURY
6U	ARSENIC	16U	NICKEL
11U	BARIUM	880U	POTASSIUM
1U	BERYLLIUM	4U	SELENIUM
4U	CADMIUM	20U	SILVER
410U	CALCIUM	2900U	SODIUM
7U	CHROMIUM	1.7U	THALLIUM
8U	COBALT	NA	TIN
220U	COPPER	14U	VANADIUM
30U	IRON	20U	ZINC
1U	LEAD		
500U	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

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*** * * * *
** PROJECT NO. 88-584 SAMPLE NO. 29189 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-01 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NO.: 10258 SAS NO.: D. NO.: MD NO: L083 **
** * * * * *
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RESULTS UNITS PARAMETER
2.9U MG/KG CYANIDE
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FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

```

***
** PROJECT NO. 88-584   SAMPLE NO. 29191   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-02   COLLECTION START: 08/22/88   STOP: 00/00/00   **
** CASE NO.: 10258   SAS NO.:   D. NO.:   MD NO: L085   **
**
***

```

RESULTS UNITS PARAMETER
2.4U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29193 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-03 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NO.: 10258 SAS NO.: D. NO.: MD NO: L087 **
**

RESULTS UNITS PARAMETER
2.6U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29189 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SD-01 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L083
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
14000	ALUMINUM	320	MANGANESE
170	ANTIMONY	15UR	MERCURY
1.7U	ARSENIC	12	NICKEL
84	BARIUM	260U	POTASSIUM
.23U	BERYLLIUM	.91U	SELENIUM
1.1U	CADMIUM	2.4UJ	SILVER
1500	CALCIUM	850U	SODIUM
40J	CHROMIUM	.5U	THALLIUM
13	COBALT	NA	TIN
86	COPPER	77	VANADIUM
21000	IRON	91	ZINC
57	LEAD	32	PERCENT MOISTURE
2100	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29191 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SD-02 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L085
**

MG/KG ANALYTICAL RESULTS

3600 ALUMINUM
20U ANTIMONY
2.2 ARSENIC
40 BARIUM
4U BERYLLIUM
3 CADMIUM
950U CALCIUM
46J CHROMIUM
23 COBALT
24 COPPER
11000 IRON
30 LEAD
650 MAGNESIUM

MG/KG ANALYTICAL RESULTS

130 MANGANESE
.12UR MERCURY
17 NICKEL
220U POTASSIUM
.75U SELENIUM
30UJ SILVER
700U SODIUM
.41U THALLIUM
NA TIN
38 VANADIUM
62 ZINC
18 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29193 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SD-03 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: LOB7
**

MG/KG
3900 ALUMINUM
20U ANTIMONY
3.7 ARSENIC
14 BARIUM
.21U BERYLLIUM
.98U CADMIUM
850 CALCIUM
36J CHROMIUM
6 COBALT
9.7 COPPER
9100 IRON
25 LEAD
1500 MAGNESIUM

ANALYTICAL RESULTS

MG/KG
85 MANGANESE
.13UR MERCURY
11 NICKEL
240U POTASSIUM
.82U SELENIUM
2.20J SILVER
760U SODIUM
.45U THALLIUM
NA TIN
27 VANADIUM
79 ZINC
24 PERCENT MOISTURE

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

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** PROJECT NO. 88-607   SAMPLE NO. 29090   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SW-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88 1025   STOP: 00/00/00
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UG/L      ANALYTICAL RESULTS
5.0U      CHLOROMETHANE
5.0U      VINYL CHLORIDE
5.0U      BROMOMETHANE
5.0U      CHLOROETHANE
5.0U      TRICHLOROFLUOROMETHANE
5.0U      1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5.0U      ACETONE
5.0U      CARBON DISULFIDE
5.0U      METHYLENE CHLORIDE
5.0U      TRANS-1,2-DICHLOROETHENE
5.0U      1,1-DICHLOROETHANE
5.0U      VINYL ACETATE
5.0U      CIS-1,2-DICHLOROETHENE
5.0U      2,2-DICHLOROPROPANE
5.0U      METHYL ETHYL KETONE
5.0U      BROMOCHLOROMETHANE
5.0U      CHLOROFORM
5.0U      1,1,1-TRICHLOROETHANE
5.0U      1,1-DICHLOROPROPENE
5.0U      CARBON TETRACHLORIDE
5.0U      1,2-DICHLOROETHANE
5.0U      BENZENE
5.0U      TRICHLOROETHENE(1,1,2-TRICHLOROETHYLENE)
5.0U      1,2-DICHLOROPROPANE
5.0U      DIBROMOMETHANE
5.0U      BROMODICHLOROMETHANE
  
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UG/L      ANALYTICAL RESULTS
5.0U      CIS-1,3-DICHLOROPROPENE
5.0U      METHYL ISOBUTYL KETONE
1.5J      TOLUENE
5.0U      TRANS-1,3-DICHLOROPROPENE
5.0U      1,1,2-TRICHLOROETHANE
5.0U      TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U      1,3-DICHLOROPROPANE
5.0U      METHYL BUTYL KETONE
5.0U      DIBROMOCHLOROMETHANE
5.0U      CHLOROBENZENE
1.0U      1,1,1,2-TETRACHLOROETHANE
5.0U      ETHYL BENZENE
5.0U      (M- AND/OR P-)XYLENE
5.0U      O-XYLENE
1.0U      STYRENE
5.0U      BROMOFORM
1.0U      BROMOBENZENE
5.0U      1,1,2,2-TETRACHLOROETHANE
1.0U      1,2,3-TRICHLOROPROPANE
1.0U      O-CHLOROTOLUENE
1.0U      P-CHLOROTOLUENE
1.0U      1,3-DICHLOROBENZENE
1.0U      1,4-DICHLOROBENZENE
1.0U      1,2-DICHLOROBENZENE
  
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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29092   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88 1130   STOP: 00/00/00   **
**
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UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
50U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
50U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
1.0J	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
50U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
50U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
10U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
10U	STYRENE
5.0U	BROMOFORM
10U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
10U	1,2,3-TRICHLOROPROPANE
10U	O-CHLOROTOLUENE
10U	P-CHLOROTOLUENE
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29094   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88 1215   STOP: 00/00/00
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UG/L      ANALYTICAL RESULTS
5.0U      CHLOROMETHANE
5.0U      VINYL CHLORIDE
5.0U      BROMOMETHANE
5.0U      CHLOROETHANE
5.0U      TRICHLOROFLUOROMETHANE
5.0U      1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5.0U      ACETONE
5.0U      CARBON DISULFIDE
5.0U      METHYLENE CHLORIDE
5.0U      TRANS-1,2-DICHLOROETHENE
5.0U      1,1-DICHLOROETHANE
5.0U      VINYL ACETATE
5.0U      CIS-1,2-DICHLOROETHENE
5.0U      2,2-DICHLOROPROPANE
5.0U      METHYL ETHYL KETONE
5.0U      BROMOCHLOROMETHANE
0.89J     CHLOROFORM
5.0U      1,1,1-TRICHLOROETHANE
5.0U      1,1-DICHLOROPROPENE
5.0U      CARBON TETRACHLORIDE
5.0U      1,2-DICHLOROETHANE
5.0U      BENZENE
5.0U      TRICHLOROETHENE(1,1,2-TRICHLOROETHYLENE)
5.0U      1,2-DICHLOROPROPANE
5.0U      DIBROMOMETHANE
5.0U      BROMODICHLOROMETHANE

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UG/L      ANALYTICAL RESULTS
5.0U      CIS-1,3-DICHLOROPROPENE
5.0U      METHYL ISOBUTYL KETONE
5.0U      TOLUENE
5.0U      TRANS-1,3-DICHLOROPROPENE
5.0U      1,1,2-TRICHLOROETHANE
5.0U      TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U      1,3-DICHLOROPROPANE
5.0U      METHYL BUTYL KETONE
5.0U      DIBROMOCHLOROMETHANE
5.0U      CHLOROBENZENE
1.0U      1,1,1,2-TETRACHLOROETHANE
5.0U      ETHYL BENZENE
5.0U      (M- AND/OR P-)XYLENE
5.0U      O-XYLENE
1.0U      STYRENE
5.0U      BROMOFORM
1.0U      BROMOBENZENE
5.0U      1,1,2,2-TETRACHLOROETHANE
1.0U      1,2,3-TRICHLOROPROPANE
1.0U      O-CHLOROTOLUENE
1.0U      P-CHLOROTOLUENE
1.0U      1,3-DICHLOROBENZENE
1.0U      1,4-DICHLOROBENZENE
1.0U      1,2-DICHLOROBENZENE

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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

08/31/88

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29098 SAMPLE TYPE: BLKWA
** SOURCE: CONE MILLS-WHITE OAK
** STATION ID: TB-01 TRIP BLANK
**

** PROG ELEM: NSF COLLECTED BY: A SPAUGH
** CITY: GREENSBORO ST: NC
** COLLECTION START: 08/22/88 1245 STOP: 00/00/00
**

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE
5.0U VINYL CHLORIDE
5.0U BROMOMETHANE
5.0U CHLOROETHANE
5.0U TRICHLOROFLUOROMETHANE
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U ACETONE
50U CARBON DISULFIDE
5.0U METHYLENE CHLORIDE
5.0U TRANS-1,2-DICHLOROETHENE
5.0U 1,1-DICHLOROETHANE
50U VINYL ACETATE
5.0U CIS-1,2-DICHLOROETHENE
5.0U 2,2-DICHLOROPROPANE
28J METHYL ETHYL KETONE
5.0U BROMOCHLOROMETHANE
5.0U CHLOROFORM
5.0U 1,1,1-TRICHLOROETHANE
5.0U 1,1-DICHLOROPROPENE
5.0U CARBON TETRACHLORIDE
5.0U 1,2-DICHLOROETHANE
5.0U BENZENE
5.0U TRICHLOROETHENE (TRICHLOROETHYLENE)
5.0U 1,2-DICHLOROPROPANE
5.0U DIBROMOMETHANE
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE
50U METHYL ISOBUTYL KETONE
0.88J TOLUENE
5.0U TRANS-1,3-DICHLOROPROPENE
5.0U 1,1,2-TRICHLOROETHANE
5.0U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U 1,3-DICHLOROPROPANE
50U METHYL BUTYL KETONE
5.0U DIBROMOCHLOROMETHANE
5.0U CHLOROBENZENE
10U 1,1,1,2-TETRACHLOROETHANE
5.0U ETHYL BENZENE
5.0U (M- AND/OR P-)XYLENE
5.0U O-XYLENE
10U STYRENE
5.0U BROMOFORM
10U BROMOBENZENE
5.0U 1,1,2,2-TETRACHLOROETHANE
10U 1,2,3-TRICHLOROPROPANE
10U O-CHLOROTOLUENE
10U P-CHLOROTOLUENE
10U 1,3-DICHLOROBENZENE
10U 1,4-DICHLOROBENZENE
10U 1,2-DICHLOROBENZENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29091   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88 1030   STOP: 00/00/00   **
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UG/KG	ANALYTICAL RESULTS
19U	CHLOROMETHANE
19U	VINYL CHLORIDE
19U	BROMOMETHANE
19U	CHLOROETHANE
19U	TRICHLOROFLUOROMETHANE
19U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
190U	ACETONE
190U	CARBON DISULFIDE
19U	METHYLENE CHLORIDE
19U	TRANS-1,2-DICHLOROETHENE
19U	1,1-DICHLOROETHANE
190U	VINYL ACETATE
19U	CIS-1,2-DICHLOROETHENE
19U	2,2-DICHLOROPROPANE
22J	METHYL ETHYL KETONE
19U	BROMOCHLOROMETHANE
19U	CHLOROFORM
19U	1,1,1-TRICHLOROETHANE
19U	1,1-DICHLOROPROPENE
19U	CARBON TETRACHLORIDE
19U	1,2-DICHLOROETHANE
19U	BENZENE
19U	TRICHLOROETHENE (TRICHLOROETHYLENE)
19U	1,2-DICHLOROPROPANE
19U	DIBROMOMETHANE
19U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
19U	CIS-1,3-DICHLOROPROPENE
190U	METHYL ISOBUTYL KETONE
11J	TOLUENE
19U	TRANS-1,3-DICHLOROPROPENE
19U	1,1,2-TRICHLOROETHANE
19U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
19U	1,3-DICHLOROPROPANE
190U	METHYL BUTYL KETONE
19U	DIBROMOCHLOROMETHANE
19U	CHLOROBENZENE
19U	1,1,1,2-TETRACHLOROETHANE
19U	ETHYL BENZENE
19U	(M- AND/OR P-)XYLENE
19U	O-XYLENE
19U	STYRENE
19U	BROMOFORM
19U	BROMOBENZENE
19U	1,1,2,2-TETRACHLOROETHANE
19U	1,2,3-TRICHLOROPROPANE
19U	O-CHLOROTOLUENE
19U	P-CHLOROTOLUENE
19U	1,3-DICHLOROBENZENE
19U	1,4-DICHLOROBENZENE
19U	1,2-DICHLOROBENZENE
29.0	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29093   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88   1135   STOP: 00/00/00
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UG/KG      ANALYTICAL RESULTS
21U  CHLOROMETHANE
21U  VINYL CHLORIDE
21U  BROMOMETHANE
21U  CHLOROETHANE
21U  TRICHLOROFLUOROMETHANE
21U  1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
21OU ACETONE
21OU CARBON DISULFIDE
21U  METHYLENE CHLORIDE
21U  TRANS-1,2-DICHLOROETHENE
5.4J  1,1-DICHLOROETHANE
21OU VINYL ACETATE
21U  CIS-1,2-DICHLOROETHENE
21U  2,2-DICHLOROPROPANE
21OU METHYL ETHYL KETONE
21U  BROMOCHLOROMETHANE
21U  CHLOROFORM
21U  1,1,1-TRICHLOROETHANE
21U  1,1-DICHLOROPROPENE
21U  CARBON TETRACHLORIDE
21U  1,2-DICHLOROETHANE
21U  BENZENE
21U  TRICHLOROETHENE(TRICHLOROETHYLENE)
21U  1,2-DICHLOROPROPANE
21U  DIBROMOMETHANE
21U  BROMODICHLOROMETHANE

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UG/KG      ANALYTICAL RESULTS
21U  CIS-1,3-DICHLOROPROPENE
21OU METHYL ISOBUTYL KETONE
3.6J  TOLUENE
21U  TRANS-1,3-DICHLOROPROPENE
21U  1,1,2-TRICHLOROETHANE
21U  TETRACHLOROETHENE(TETRACHLOROETHYLENE)
21U  1,3-DICHLOROPROPANE
21OU METHYL BUTYL KETONE
21U  DIBROMOCHLOROMETHANE
21U  CHLOROBENZENE
21U  1,1,1,2-TETRACHLOROETHANE
21U  ETHYL BENZENE
21U  (M- AND/OR P-)XYLENE
21U  O-XYLENE
21U  STYRENE
21U  BROMOFORM
21U  BROMOBENZENE
21U  1,1,2,2-TETRACHLOROETHANE
21U  1,2,3-TRICHLOROPROPANE
21U  O-CHLOROTOLUENE
21U  P-CHLOROTOLUENE
21U  1,3-DICHLOROBENZENE
21U  1,4-DICHLOROBENZENE
21U  1,2-DICHLOROBENZENE
24.0  PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

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** PROJECT NO. 88-607   SAMPLE NO. 29095   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88 1220   STOP: 00/00/00

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UG/KG	ANALYTICAL RESULTS
20U	CHLOROMETHANE
20U	VINYL CHLORIDE
20U	BROMOMETHANE
20U	CHLOROETHANE
20U	TRICHLOROFLUOROMETHANE
20U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
200U	ACETONE
200U	CARBON DISULFIDE
20U	METHYLENE CHLORIDE
20U	TRANS-1,2-DICHLOROETHENE
20U	1,1-DICHLOROETHANE
200U	VINYL ACETATE
20U	CIS-1,2-DICHLOROETHENE
20U	2,2-DICHLOROPROPANE
200U	METHYL ETHYL KETONE
20U	BROMOCHLOROMETHANE
20U	CHLOROFORM
20U	1,1,1-TRICHLOROETHANE
20U	1,1-DICHLOROPROPENE
20U	CARBON TETRACHLORIDE
20U	1,2-DICHLOROETHANE
20U	BENZENE
20U	TRICHLOROETHENE(TRICHLOROETHYLENE)
20U	1,2-DICHLOROPROPANE
20U	DIBROMOMETHANE
20U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
20U	CIS-1,3-DICHLOROPROPENE
200U	METHYL ISOBUTYL KETONE
8.0J	TOLUENE
20U	TRANS-1,3-DICHLOROPROPENE
20U	1,1,2-TRICHLOROETHANE
20U	TETRACHLOROETHENE(TETRACHLOROFTHYLENE)
20U	1,3-DICHLOROPROPANE
200U	METHYL BUTYL KETONE
20U	DIBROMOCHLOROMETHANE
20U	CHLOROBENZENE
20U	1,1,1,2-TETRACHLOROETHANE
20U	ETHYL BENZENE
20U	(M- AND/OR P-)XYLENE
20U	O-XYLENE
20U	STYRENE
20U	BROMOFORM
20U	BROMOBENZENE
20U	1,1,2,2-TETRACHLOROFTHANE
20U	1,2,3-TRICHLOROPROPANE
20U	O-CHLOROTOLUENE
20U	P-CHLOROTOLUENE
20U	1,3-DICHLOROBENZENE
20U	1,4-DICHLOROBENZENE
20U	1,2-DICHLOROBENZENE
23.0	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **
**

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	BIS(2-CHLOROETHYL) ETHER	10U	FLUORANTHENE
10U	BIS(2-CHLOROISOPROPYL) ETHER	10U	PYRENE
10U	N-NITROSODI-N-PROPYLAMINE	10U	BENZYL BUTYL PHTHALATE
10U	HEXACHLOROETHANE	10U	3,3'-DICHLOROBENZIDINE
10U	NITROBENZENE	10U	BENZO(A)ANTHRACENE
10U	ISOPHORONE	10U	CHRYSENE
10U	BIS(2-CHLOROETHOXY) METHANE	10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	1,2,4-TRICHLOROBENZENE	10U	DI-N-OCTYLPHTHALATE
10U	NAPHTHALENE	10U	BENZO(B AND/OR K)FLUORANTHENE
10U	4-CHLOROANILINE	10U	BENZO-A-PYRENE
10U	HEXACHLOROBUTADIENE	10U	INDENO (1,2,3-CD) PYRENE
10U	2-METHYLNAPHTHALENE	10U	DIBENZO(A,H)ANTHRACENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)	10U	BENZO(GHI)PERYLENE
10U	2-CHLORONAPHTHALENE	10U	PHENOL
10U	2-NITROANILINE	10U	2-CHLOROPHENOL
10U	DIMETHYL PHTHALATE	20U	BENZYL ALCOHOL
10U	ACENAPHTHYLENE	10U	2-METHYLPHENOL
10U	2,6-DINITROTOLUENE	10U	(3-AND/OR 4-)METHYLPHENOL
10U	3-NITROANILINE	10U	2-NITROPHENOL
10U	ACENAPHTHENE	10U	2,4-DIMETHYLPHENOL
10U	DIBENZOFURAN	20U	BENZOIC ACID
10U	2,4-DINITROTOLUENE	10U	2,4-DICHLOROPHENOL
10U	DIETHYL PHTHALATE	10U	4-CHLORO-3-METHYLPHENOL
10U	FLUORENE	10U	2,4,6-TRICHLOROPHENOL
10U	4-CHLOROPHENYL PHENYL ETHER	10U	2,4,5-TRICHLOROPHENOL
10U	4-NITROANILINE	20U	2,4-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	20U	4-NITROPHENOL
10U	4-BROMOPHENYL PHENYL ETHER	10U	2,3,4,6-TETRACHLOROPHENOL
10U	HEXACHLOROBENZENE (HCB)	20U	2-METHYL-4,6-DINITROPHENOL
10U	PHENANTHRENE	20U	PENTACHLOROPHENOL
10U	ANTHRACENE		
10U	DI-N-BUTYLPHTHALATE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29092 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1130 STOP: 00/00/00
**

UG/L ANALYTICAL RESULTS

10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLOROISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
10U HEXACHLOROETHANE
10U NITROBENZENE
10U ISOPHORONE
10U BIS(2-CHLOROETHOXY) METHANE
10U 1,2,4-TRICHLOROBENZENE
10U NAPHTHALENE
10U 4-CHLOROANILINE
10U HEXACHLOROBUTADIENE
10U 2-METHYLNAPHTHALENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 2-CHLORONAPHTHALENE
10U 2-NITROANILINE
10U DIMETHYL PHTHALATE
10U ACENAPHTHYLENE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
10U FLUORENE
10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-BROMOPHENYL PHENYL ETHER
10U HEXACHLOROBENZENE (HCB)
10U PHENANTHRENE
10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE

UG/L ANALYTICAL RESULTS

10U FLUORANTHENE
10U PYRENE
10U BENZYL BUTYL PHTHALATE
10U 3,3'-DICHLOROBENZIDINE
10U BENZO(A)ANTHRACENE
10U CHRYSENE
10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
10U INDENO (1,2,3-CD) PYRENE
10U DIBENZO(A,H)ANTHRACENE
10U BENZO(GHI)PERYLENE
10U PHENOL
10U 2-CHLOROPHENOL
20U BENZYL ALCOHOL
10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
20U BENZOIC ACID
10U 2,4-DICHLOROPHENOL
10U 4-CHLORO-3-METHYLPHENOL
10U 2,4,6-TRICHLOROPHENOL
10U 2,4,5-TRICHLOROPHENOL
20U 2,4 DINITROPHENOL
20U 4-NITROPHENOL
10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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** PROJECT NO. 88-607   SAMPLE NO. 29094   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88   1215   STOP: 00/00/00
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UG/L ANALYTICAL RESULTS

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10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLOROISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
10U HEXACHLOROETHANE
10U NITROBENZENE
10U ISOPHORONE
10U BIS(2-CHLOROETHOXY) METHANE
10U 1,2,4-TRICHLOROBENZENE
10U NAPHTHALENE
10U 4-CHLOROANILINE
10U HEXACHLOROBUTADIENE
10U 2-METHYLNAPHTHALENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 2-CHLORONAPHTHALENE
10U 2-NITROANILINE
10U DIMETHYL PHTHALATE
10U ACENAPHTHYLENE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
10U FLUORENE
10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-BROMOPHENYL PHENYL ETHER
10U HEXACHLOROBENZENE (HCB)
10U PHENANTHRENE
10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE
  
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UG/L ANALYTICAL RESULTS

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10U FLUORANTHENE
10U PYRENE
10U BENZYL BUTYL PHTHALATE
10U 3,3'-DICHLOROBENZIDINE
10U BENZO(A)ANTHRACENE
10U CHRYSENE
10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
10U INDENO (1,2,3-CD) PYRENE
10U DIBENZO(A,H)ANTHRACENE
10U BENZO(GHI)PERYLENE
10U PHENOL
10U 2-CHLOROPHENOL
20U BENZYL ALCOHOL
10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
20U BENZOIC ACID
10U 2,4-DICHLOROPHENOL
10U 4-CHLORO-3-METHYLPHENOL
10U 2,4,6-TRICHLOROPHENOL
10U 2,4,5-TRICHLOROPHENOL
20U 2,4-DINITROPHENOL
20U 4-NITROPHENOL
10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL
  
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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE TYPE: BLKWA PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: TB-01 TRIP BLANK COLLECTION START: 08/22/88 1245 STOP: 00/00/00
**

UG/L ANALYTICAL RESULTS

10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLOROISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
10U HEXACHLOROETHANE
10U NITROBENZENE
10U ISOPHORONE
10U BIS(2-CHLOROETHOXY) METHANE
10U 1,2,4-TRICHLOROBENZENE
10U NAPHTHALENE
10U 4-CHLOROANILINE
10U HEXACHLOROBUTADIENE
10U 2-METHYLNAPHTHALENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 2-CHLORONAPHTHALENE
10U 2-NITROANILINE
10U DIMETHYL PHTHALATE
10U ACENAPHTHYLENE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
10U FLUORENE
10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-BROMOPHENYL PHENYL ETHER
10U HEXACHLOROBENZENE (HCB)
10U PHENANTHRENE
10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE

UG/L ANALYTICAL RESULTS

10U FLUORANTHENE
10U PYRENE
10U BENZYL BUTYL PHTHALATE
10U 3,3'-DICHLOROBENZIDINE
10U BENZO(A)ANTHRACENE
10U CHRYSENE
10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
10U INDENO (1,2,3-CD) PYRENE
10U DIBENZO(A,H)ANTHRACENE
10U BENZO(GHI)PERYLENE
10U PHENOL
10U 2-CHLOROPHENOL
20U BENZYL ALCOHOL
10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
20U BENZOIC ACID
10U 2,4-DICHLOROPHENOL
10U 4-CHLORO-3-METHYLPHENOL
10U 2,4,6-TRICHLOROPHENOL
10U 2,4,5-TRICHLOROPHENOL
20U 2,4-DINITROPHENOL
20U 4-NITROPHENOL
10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **

RESULTS UNITS COMPOUND
20J UG/L 1 UNIDENTIFIED COMPOUND

RESULTS UNITS COMPOUND

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/11/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD COLLECTION START: 08/22/88 1215 STOP: 00/00/00 **
**

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
2JN	UG/L	CHLORODIETHYLTRIAZINE DIAMINE (SIMAZINE)			

FOOTNOTES

- *A-AVERAGE VALUE
- *NA-NOT ANALYZED
- *NAI-INTERFERENCES
- *J-ESTIMATED VALUE
- *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
- *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29091   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SD-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88   1030   STOP: 00/00/00
**

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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1600U	BIS(2-CHLOROETHYL) ETHER	430J	FLUORANTHENE
1600U	BIS(2-CHLOROISOPROPYL) ETHER	390J	PYRENE
1600U	N-NITROSODI-N-PROPYLAMINE	1600U	BENZYL BUTYL PHTHALATE
1600U	HEXACHLOROETHANE	1600U	3,3'-DICHLOROBENZIDINE
1600U	NITROBENZENE	210J	BENZO(A)ANTHRACENE
1600U	ISOPHORONE	270J	CHRYSENE
1600U	BIS(2-CHLOROETHOXY) METHANE	1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	1,2,4-TRICHLOROBENZENE	1600U	DI-N-OCTYL PHTHALATE
1600U	NAPHTHALENE	1600U	BENZO(B AND/OR K)FLUORANTHENE
1600U	4-CHLOROANILINE	1600U	BENZO-A-PYRENE
1600U	HEXACHLOROBUTADIENE	1600U	INDENO (1,2,3-CD) PYRENE
1600U	2-METHYLNAPHTHALENE	1600U	DIBENZO(A,H)ANTHRACENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)	1600U	BENZO(GHI)PERYLENE
1600U	2-CHLORONAPHTHALENE	1600U	PHENOL
1600U	2-NITROANILINE	1600U	2-CHLOROPHENOL
1600U	DIMETHYL PHTHALATE	3200U	BENZYL ALCOHOL
1600U	ACENAPHTHYLENE	1600U	2-METHYLPHENOL
1600U	2,6-DINITROTOLUENE	1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	3-NITROANILINE	1600U	2-NITROPHENOL
1600U	ACENAPHTHENE	1600U	2,4-DIMETHYLPHENOL
1600U	DIBENZOFURAN	3200U	BENZOIC ACID
1600U	2,4-DINITROTOLUENE	1600U	2,4-DICHLOROPHENOL
1600U	DIETHYL PHTHALATE	1600U	4-CHLORO-3-METHYLPHENOL
1600U	FLUORENE	1600U	2,4,6-TRICHLOROPHENOL
1600U	4-CHLOROPHENYL PHENYL ETHER	1600U	2,4,5-TRICHLOROPHENOL
1600U	4-NITROANILINE	3200U	2,4-DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	3200U	4-NITROPHENOL
1600U	4-BROMOPHENYL PHENYL ETHER	1600U	2,3,4,6-TETRACHLOROPHENOL
1600U	HEXACHLOROBENZENE (HCB)	3200U	2-METHYL-4,6-DINITROPHENOL
300J	PHENANTHRENE	3200U	PENTACHLOROPHENOL
1600U	ANTHRACENE	29	PERCENT MOISTURE
1600U	DI-N-BUTYL PHTHALATE		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
 ** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC
 ** STATION ID: SD-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1135 STOP: 00/00/00
 **

UG/KG ANALYTICAL RESULTS

1600U BIS(2-CHLOROETHYL) ETHER
 1600U BIS(2-CHLOROISOPROPYL) ETHER
 1600U N-NITROSODI-N-PROPYLAMINE
 1600U HEXACHLOROETHANE
 1600U NITROBENZENE
 1600U ISOPHORONE
 1600U BIS(2-CHLOROETHOXY) METHANE
 1600U 1,2,4-TRICHLOROBENZENE
 1600U NAPHTHALENE
 1600U 4-CHLOROANILINE
 1600U HEXACHLOROBUTADIENE
 1600U 2-METHYLNAPHTHALENE
 1600U HEXACHLOROCYCLOPENTADIENE (HCCP)
 1600U 2-CHLORONAPHTHALENE
 1600U 2-NITROANILINE
 1600U DIMETHYL PHTHALATE
 1600U ACENAPHTHYLENE
 1600U 2,6-DINITROTOLUENE
 1600U 3-NITROANILINE
 1600U ACENAPHTHENE
 1600U DIBENZOFURAN
 1600U 2,4-DINITROTOLUENE
 1600U DIETHYL PHTHALATE
 1600U FLUORENE
 1600U 4-CHLOROPHENYL PHENYL ETHER
 1600U 4-NITROANILINE
 1600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
 1600U 4-BROMOPHENYL PHENYL ETHER
 1600U HEXACHLOROBENZENE (HCB)
 1200J PHENANTHRENE
 300J ANTHRACENE
 1600U DI-N-BUTYLPHTHALATE

UG/KG ANALYTICAL RESULTS

1200J FLUORANTHENE
 960J PYRENE
 1600U BENZYL BUTYL PHTHALATE
 1600U 3,3'-DICHLOROBENZIDINE
 650J BENZO(A)ANTHRACENE
 650J CHRYSENE
 310J BIS(2-ETHYLHEXYL) PHTHALATE
 1600U DI-N-OCTYLPHTHALATE
 1110J BENZO(B AND/OR K)FLUORANTHENE
 630J BENZO-A-PYRENE
 1600U INDENO (1,2,3-CD) PYRENE
 1600U DIBENZO(A,H)ANTHRACENE
 1600U BENZO(GHI)PERYLENE
 1600U PHENOL
 1600U 2-CHLOROPHENOL
 3200U BENZYL ALCOHOL
 1600U 2-METHYLPHENOL
 1600U (3-AND/OR 4-)METHYLPHENOL
 1600U 2-NITROPHENOL
 1600U 2,4-DIMETHYLPHENOL
 3200U BENZOIC ACID
 1600U 2,4-DICHLOROPHENOL
 1600U 4-CHLORO-3-METHYLPHENOL
 1600U 2,4,6-TRICHLOROPHENOL
 1600U 2,4,5-TRICHLOROPHENOL
 3200U 2,4-DINITROPHENOL
 3200U 4-NITROPHENOL
 1600U 2,3,4,6-TETRACHLOROPHENOL
 3200U 2-METHYL-4,6-DINITROPHENOL
 3200U PENTACHLOROPHENOL
 24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29095   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88   1220   STOP: 00/00/00
**
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UG/KG	ANALYTICAL RESULTS
1600U	BIS(2-CHLOROETHYL) ETHER
1600U	BIS(2-CHLOROISOPROPYL) ETHER
1600U	N-NITROSODI-N-PROPYLAMINE
1600U	HEXACHLOROETHANE
1600U	NITROBENZENE
1600U	ISOPHORONE
1600U	BIS(2-CHLOROETHOXY) METHANE
1600U	1,2,4-TRICHLOROBENZENE
1600U	NAPHTHALENE
1600U	4-CHLOROANILINE
1600U	HEXACHLOROBUTADIENE
1600U	2-METHYLNAPHTHALENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
1600U	2-CHLORONAPHTHALENE
1600U	2-NITROANILINE
1600U	DIMETHYL PHTHALATE
120J	ACENAPHTHYLENE
1600U	2,6-DINITROTOLUENE
1600U	3-NITROANILINE
1600U	ACENAPHTHENE
1600U	DIBENZOFURAN
1600U	2,4-DINITROTOLUENE
1600U	DIETHYL PHTHALATE
1600U	FLUORENE
1600U	4-CHLOROPHENYL PHENYL ETHER
1600U	4-NITROANILINE
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U	4-BROMOPHENYL PHENYL ETHER
1600U	HEXACHLOROBENZENE (HCB)
3000	PHENANTHRENE
400J	ANTHRACENE
1600U	DI-N-BUTYLPHTHALATE

UG/KG	ANALYTICAL RESULTS
5100	FLUORANTHENE
4400	PYRENE
1600U	BENZYL BUTYL PHTHALATE
1600U	3,3'-DICHLOROBENZIDINE
2800	BENZO(A)ANTHRACENE
3000	CHRYSENE
1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	DI-N-OCTYLPHTHALATE
5800	BENZO(B AND/OR K)FLUORANTHENE
2800	BENZO-A-PYRENE
1800	INDENO (1,2,3-CD) PYRENE
1600U	DIBENZO(A,H)ANTHRACENE
1500J	BENZO(GHI)PERYLENE
1800U	PHENOL
1600U	2-CHLOROPHENOL
3100U	BENZYL ALCOHOL
1600U	2-METHYLPHENOL
1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	2-NITROPHENOL
1600U	2,4-DIMETHYLPHENOL
3100U	BENZOIC ACID
1600U	2,4-DICHLOROPHENOL
1600U	4-CHLORO-3-METHYLPHENOL
1600U	2,4,6-TRICHLOROPHENOL
1600U	2,4,5-TRICHLOROPHENOL
3100U	2,4-DINITROPHENOL
3100U	4-NITROPHENOL
1600U	2,3,4,6-TETRACHLOROPHENOL
3100U	2-METHYL-4,6-DINITROPHENOL
3100U	PENTACHLOROPHENOL
23	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1135 STOP: 00/00/00
**

RESULTS UNITS COMPOUND
300JN UG/KG BENZOFLUORANTHENE (NOT B AND/OR K)

RESULTS UNITS COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29095   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88   1220   STOP: 00/00/00   **
**                                                                 **
***

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RESULTS	UNITS	COMPOUND
200JN	UG/KG	CARBAZOLE
400JN	UG/KG	CYCLOPENTAPHENANTHRENE
300JN	UG/KG	BENZONAPHTHOFURAN (2 ISOMERS)
700JN	UG/KG	BENZANTHRACENE (2 ISOMERS)
600JN	UG/KG	TRIPHENYLENE
900JN	UG/KG	METHYLBENZANTHRACENE (3 ISOMERS)

RESULTS	UNITS	COMPOUND
400JN	UG/KG	METHYLPHENANTHRENE (2 ISOMERS)
300JN	UG/KG	PHENANTHRENE DIONE
1000JN	UG/KG	METHYLFLUORANTHENE (4 ISOMERS)
400JN	UG/KG	BENZONAPHTHOTHIOPHENE
3000JN	UG/KG	BENZOFLUORANTHENE (3 ISOMERS) (NOT B OR K)

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29090   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SW-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88   1025   STOP: 00/00/00
**
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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.029U	ALDRIN	0.72U	PCB-1232 (AROCLOR 1232)
0.017U	HEPTACHLOR	0.72U	PCB-1248 (AROCLOR 1248)
0.022U	HEPTACHLOR EPOXIDE	0.44U	PCB-1260 (AROCLOR 1260)
0.025U	ALPHA-BHC	0.72U	PCB-1016 (AROCLOR 1016)
0.037U	BETA-BHC	2.1U	TOXAPHENE
0.024U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.050U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.026U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.033U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.048U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2 /2
0.031U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.054U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.029U	ENDRIN	--	ALPHA-CHLORDANE /2
0.039U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.054U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.027U	CHLORDANE (TECH. MIXTURE) /1	0.069U	METHOXYCHLOR
0.72U	PCB-1242 (AROCLOR 1242)	0.074U	ENDRIN KETONE
0.44U	PCB-1254 (AROCLOR 1254)		
0.72U	PCB-1221 (AROCLOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29092   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88 1130   STOP: 00/00/00   **
**

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.063U	ALDRIN	0.69U	PCB-1232 (AROCLOR 1232)
0.016U	HEPTACHLOR	0.69U	PCB-1248 (AROCLOR 1248)
0.021U	HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCLOR 1260)
0.028U	ALPHA-BHC	0.69U	PCB-1016 (AROCLOR 1016)
0.035U	BETA-BHC	2.1U	TOXAPHENE
0.027U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.051J	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.023U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.031U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.048U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.049U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.055U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.035U	ENDRIN	--	ALPHA-CHLORDANE /2
0.042U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.052U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.28U	CHLORDANE (TECH. MIXTURE) /1	0.083U	METHOXYCHLOR
0.69U	PCB-1242 (AROCLOR 1242)	0.078U	ENDRIN KETONE
0.41U	PCB-1254 (AROCLOR 1254)		
0.69U	PCB-1221 (AROCLOR 1221)		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29094   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88 1215   STOP: 00/00/00   **
**

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.049U	ALDRIN	0.80U	PCB-1232 (AROCLOR 1232)
0.018U	HEPTACHLOR	0.80U	PCB-1248 (AROCLOR 1248)
0.019U	HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCLOR 1260)
0.050U	ALPHA-BHC	0.80U	PCB-1016 (AROCLOR 1016)
0.039U	BETA-BHC	2.1U	TOXAPHENE
0.048U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.051U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.026U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.035U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.046U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.050U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.057U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.039U	ENDRIN	--	ALPHA-CHLORDANE /2
0.045U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.045U	ENDOSULFAN SULFATE	--	OKYCHLORDANE (OCTACHLOREPOXIDE) /2
0.27U	CHLORDANE (TECH. MIXTURE) /1	0.065U	METHOXYCHLOR
0.80U	PCB-1242 (AROCLOR 1242)	0.071U	ENDRIN KETONE
0.41U	PCB-1254 (AROCLOR 1254)		
0.80U	PCB-1221 (AROCLOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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** PROJECT NO. 88-607   SAMPLE NO. 29096   SAMPLE TYPE: BLKWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: TB-01 TRIP BLANK   COLLECTION START: 08/22/88 1245   STOP: 00/00/00

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UG/L ANALYTICAL RESULTS

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0.021U ALDRIN
0.014U HEPTACHLOR
0.018U HEPTACHLOR EPOXIDE
0.025U ALPHA-BHC
0.031U BETA-BHC
0.024U GAMMA-BHC (LINDANE)
0.030U DELTA-BHC
0.019U ENDOSULFAN I (ALPHA)
0.033U DIELDRIN
0.046U 4,4'-DDT (P,P'-DDT)
0.031U 4,4'-DDE (P,P'-DDE)
0.044U 4,4'-DDD (P,P'-DDD)
0.039U ENDRIN
0.035U ENDOSULFAN II (BETA)
0.061U ENDOSULFAN SULFATE
0.18U CHLORDANE (TECH. MIXTURE) /1
0.53U PCB-1242 (AROCLOR 1242)
0.41U PCB-1254 (AROCLOR 1254)
0.53U PCB-1221 (AROCLOR 1221)

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UG/L ANALYTICAL RESULTS

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0.53U PCB-1232 (AROCLOR 1232)
0.53U PCB-1248 (AROCLOR 1248)
0.41U PCB-1260 (AROCLOR 1260)
0.53U PCB-1016 (AROCLOR 1016)
2.1U TOXAPHENE
-- CHLORDENE /2
-- ALPHA-CHLORDENE /2
-- BETA-CHLORDENE /2
-- GAMMA-CHLORDENE /2
-- 1-HYDROXYCHLORDENE /2
-- GAMMA-CHLORDANE /2
-- TRANS-NONACHLOR /2
-- ALPHA-CHLORDANE /2
-- CIS-NONACHLOR /2
-- OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.065U METHOXYCHLOR
0.071U ENDRIN KETONE

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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

01/03/89

PESTICIDES/PCB'S DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29091   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC
** STATION ID: SD-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88 1030   STOP: 00/00/00
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UG/KG ANALYTICAL RESULTS

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3.3U ALDRIN
3.3U HEPTACHLOR
3.3U HEPTACHLOR EPOXIDE
3.3U ALPHA-BHC
3.3U BETA-BHC
3.3U GAMMA-BHC (LINDANE)
3.3U DELTA-BHC
3.3U ENDOSULFAN I (ALPHA)
3.3U DIELDRIN
5.2U 4,4'-DDT (P,P'-DDT)
3.0J 4,4'-DDE (P,P'-DDE)
4.5J 4,4'-DDD (P,P'-DDD)
5.2U ENDRIN
5.2U ENDOSULFAN II (BETA)
5.2U ENDOSULFAN SULFATE
- CHLORDANE (TECH. MIXTURE) /1
48U PCB-1242 (AROCLOR 1242)
73U PCB-1254 (AROCLOR 1254)
48U PCB-1221 (AROCLOR 1221)

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UG/KG ANALYTICAL RESULTS

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48U PCB-1232 (AROCLOR 1232)
48U PCB-1248 (AROCLOR 1248)
73U PCB-1260 (AROCLOR 1260)
48U PCB-1016 (AROCLOR 1016)
200U TOXAPHENE
1.7U CHLORDENE /2
3.1U ALPHA-CHLORDENE /2
1.7U BETA-CHLORDENE /2
3.1U GAMMA-CHLORDENE /2
1.7U 1-HYDROXYCHLORDENE /2
5.3 GAMMA-CHLORDANE /2
3.1U TRANS-NONACHLOR /2
2.1 ALPHA-CHLORDANE /2
3.1U CIS-NONACHLOR /2
3.1U OXYCHLORDANE (OCTACHLOREPOXIDE) /2
10U METHOXYCHLOR
5.2U ENDRIN KETONE
29 PERCENT MOISTURE

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REMARKS

REMARKS

FOOTNOTES

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*A-AVERAGE VALUE    *NA-NOT ANALYZED    *NAI-INTERFERENCES    *J-ESTIMATED VALUE    *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

01/03/89

PESTICIDES/PCB'S DATA REPORT

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***
** PROJECT NO. 88-607   SAMPLE NO. 29093   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88   1135   STOP: 00/00/00   **
**

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UG/KG ANALYTICAL RESULTS

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4.9U ALDRIN
4.9U HEPTACHLOR
4.9U HEPTACHLOR EPOXIDE
4.9U ALPHA-BHC
4.9U BETA-BHC
4.9U GAMMA-BHC (LINDANE)
4.9U DELTA-BHC
4.9U ENDOSULFAN I (ALPHA)
3.6J DIELDRIN
5.2U 4,4'-DDT (P,P'-DDT)
5.2U 4,4'-DDE (P,P'-DDE)
4.6J 4,4'-DDD (P,P'-DDD)
5.2U ENDRIN
5.2U ENDOSULFAN II (BETA)
5.2U ENDOSULFAN SULFATE
-- CHLORDANE (TECH. MIXTURE) /1
48U PCB-1242 (AROCLOR 1242)
73U PCB-1254 (AROCLOR 1254)
48U PCB-1221 (AROCLOR 1221)

```

UG/KG ANALYTICAL RESULTS

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48U PCB-1232 (AROCLOR 1232)
48U PCB-1248 (AROCLOR 1248)
73U PCB-1260 (AROCLOR 1260)
48U PCB-1016 (AROCLOR 1016)
200U TOXAPHENE
1.7U CHLORDENE /2
3.1U ALPHA-CHLORDENE /2
1.7U BETA-CHLORDENE /2
3.1U GAMMA-CHLORDENE /2
1.7U 1-HYDROXYCHLORDENE /2
6.3 GAMMA-CHLORDANE /2
3.1U TRANS-NONACHLOR /2
2.7 ALPHA-CHLORDANE /2
3.1U CIS-NONACHLOR /2
3.1U OXYCHLORDANE (OCTACHLOREPOXIDE) /2
10U METHOXYCHLOR
5.2U ENDRIN KETONE
24 PERCENT MOISTURE

```

REMARKS

REMARKS

FOOTNOTES

```

*A-AVERAGE VALUE    *NA-NOT ANALYZED    *NAI-INTERFERENCES    *J-ESTIMATED VALUE    *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN    *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.    C-CONFIRMED BY GC/MS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.    2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

```

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

01/03/89

PESTICIDES/PCB'S DATA REPORT

```

*** **
** PROJECT NO. 88-607   SAMPLE NO. 28095   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88   1220   STOP: 00/00/00   **
** **

```

UG/KG	ANALYTICAL RESULTS
5.0U	ALDRIN
5.0U	HEPTACHLOR
5.0U	HEPTACHLOR EPOXIDE
5.0U	ALPHA-BHC
14U	BETA-BHC
3.0U	GAMMA-BHC (LINDANE)
3.0U	DELTA-BHC
3.0U	ENDOSULFAN I (ALPHA)
3.0U	DIELDRIN
6.5U	4,4'-DDT (P,P'-DDT)
6.5U	4,4'-DDE (P,P'-DDE)
6.5U	4,4'-DDD (P,P'-DDD)
6.5U	ENDRIN
6.5U	ENDOSULFAN II (BETA)
6.5U	ENDOSULFAN SULFATE
---	CHLORDANE (TECH. MIXTURE) /1
57U	PCB-1242 (AROCOR 1242)
76U	PCB-1254 (AROCOR 1254)
57U	PCB-1221 (AROCOR 1221)

UG/KG	ANALYTICAL RESULTS
57U	PCB-1232 (AROCOR 1232)
57U	PCB-1248 (AROCOR 1248)
76U	PCB-1260 (AROCOR 1260)
57U	PCB-1016 (AROCOR 1016)
230U	TOXAPHENE
2.6U	CHLORDENE /2
2.6U	ALPHA-CHLORDENE /2
2.6U	BETA CHLORDENE /2
6.0U	GAMMA-CHLORDENE /2
2.6U	1-HYDROXYCHLORDENE /2
15	GAMMA-CHLORDANE /2
2.6U	TRANS-NONACHLOR /2
1.5J	ALPHA-CHLORDANE /2
2.6U	CIS-NONACHLOR /2
2.6U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
58U	METHOXYCHLOR
6.5U	ENDRIN KETONE
23	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS
 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

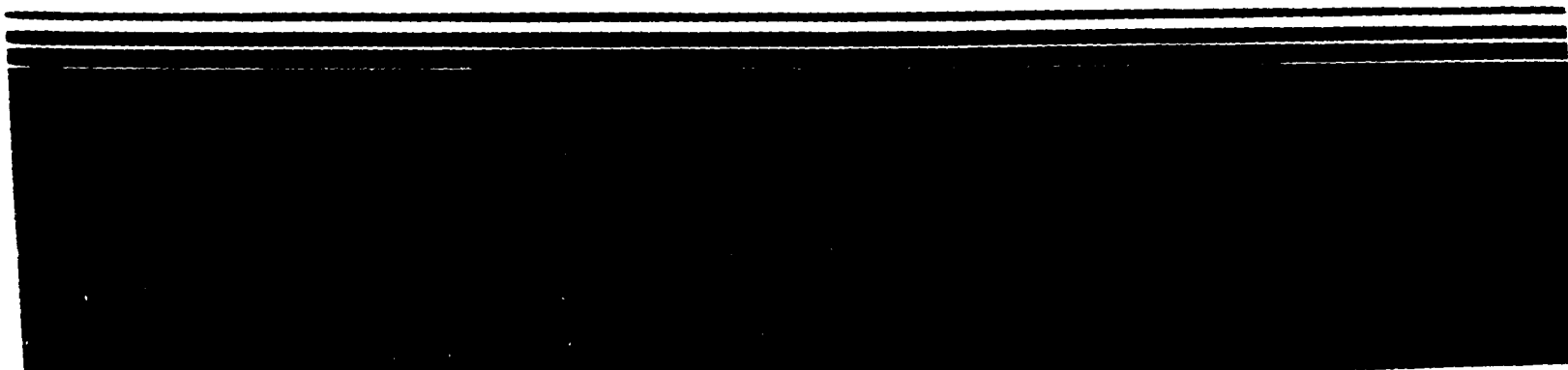
APPENDIX C
SI FORM



EPA

Potential Hazardous Waste Site

Site Inspection Report





Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 0000776914

II. SITE NAME AND LOCATION

01 SITE NAME (Name of owner or person in charge of site) Cone Mills Corp., White Oak Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION DESIGNATION 2420 Fairview Street	
03 CITY Greensboro	04 STATE NC	05 ZIP CODE 27405	06 COUNTY Guilford
07 COORDINATES LATITUDE: 36 06 30. LONGITUDE: 079 46 15.		08 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER	

III. INSPECTION INFORMATION

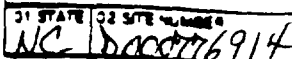
01 DATE OF INSPECTION 08 22 88	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1972 or earlier
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR NIS Corp. <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Douglas M. Chatham	Chemist- Project Manager	NIS Corp.	404 938-7710
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Andy Spangh	Sampling Manager	NIS Corp.	404 938-7710
Willie Smitherman	Health & Safety Officer	NIS Corp.	404 938-7710
Mark Hitchcock	Sampler		()
Clayton Brewer	Sampler		()
Jeff Knight	Guilford Co. Env. Health		()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ORGANIZATION	16 TELEPHONE NO.
Arthur Toompas	Env. Mgr.	Cone Mills	()
Tom Alepaugh	Plant Mgr.	"	()
Bayle Younger	Corp. Atty.	"	()
Barland Coffey		"	()
Raymond Fugate		"	()
			()
			()

17 ACCESS GRANTED BY <input checked="" type="checkbox"/> PERMSSION <input type="checkbox"/> WARRANT	18 TIME OF REPORT 0900	19 WEATHER CONDITIONS Warm, Fair
---	---------------------------	-------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Robert Morris	02 OF INFORMATION USEPA	03 TELEPHONE NO. 404 347-5065
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Douglas M. Chatham	05 AGENCY NIS Corporation	06 TELEPHONE NO. 404 938-7710
07 DATE 01 13 89		08 TIME 10:00 AM



1 HIGHLY VOLATILE
 2 EXPLOSIVE
 3 REACTIVE
 4 INCOMPATIBLE
 5 NOT APPLICABLE

EPA FORM 2070-13(7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE: NC 02 SITE NUMBER: 0000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input checked="" type="checkbox"/> A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 735	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION Dye wastes and/or solvents may have been disposed of in the dye waste treatment plant on site	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION Discharge of solvents into onsite creek. NPDES permit violation.	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION Wastes reported as ignitable	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> E DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 735	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION Through possible contamination of groundwater	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> H WORKER EXPOSURE/ILLNESS 03 WORKERS POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> I POPULATION EXPOSURE/ILLNESS 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 5000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS Continued

01 ☐ J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION include number(s) of specimens

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ M UNSTABLE CONTAINMENT OF WASTES
Specify amount, quantity, location, & nature of release

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION

NPDES permit violation; alleged discharge of solvents into
onsite creek

01 ☐ N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

06 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION also include references to EPA and State records, reports, etc.

EPA and State of North Carolina files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 800076914

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>Circle all that apply</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A NPDES				Violation in 1972 or 1973
<input type="checkbox"/> B UIC				
<input checked="" type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input checked="" type="checkbox"/> E RCRA INTERIM STATUS				Withdrawn in 1983
<input checked="" type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G STATE <small>Specify</small>				
<input type="checkbox"/> H LOCAL <small>Specify</small>				
<input type="checkbox"/> I OTHER <small>Specify</small>				
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL <small>Circle all that apply</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>Circle all that apply</small>	05 OTHER
<input checked="" type="checkbox"/> A SURFACE IMPOUNDMENT	10,000	Gal	<input type="checkbox"/> A INCINERATION	<input checked="" type="checkbox"/> A BUILDINGS ON SITE
<input type="checkbox"/> B PILES			<input type="checkbox"/> B UNDERGROUND INJECTION	
<input type="checkbox"/> C DRUMS, ABOVE GROUND			<input type="checkbox"/> C CHEMICAL/PHYSICAL	
<input type="checkbox"/> D TANK, ABOVE GROUND			<input checked="" type="checkbox"/> D BIOLOGICAL	
<input type="checkbox"/> E TANK, BELOW GROUND			<input type="checkbox"/> E WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input type="checkbox"/> F SOLVENT RECOVERY	
<input type="checkbox"/> G LANDFARM			<input type="checkbox"/> G OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H OTHER <small>Specify</small>	
<input type="checkbox"/> I OTHER <small>Specify</small>				

07 COMMENTS

IV. CONTAMINANT

01 CONTAMINANT OF WASTE Circle all that apply
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INADEQUATE, UNSOUND, DANGEROUS

02 DESCRIPTION OF CRACK, CRACK, LEAK, SEEPAGE, ETC.

No documentation of liner in wastewater treatment plant lagoons and aeration basins.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS

Facility is surrounded by a fence, with gates and security personnel.

VI. SOURCES OF INFORMATION Also include references, e.g., other EPA forms, records, reports

EPA and State of North Carolina files
NCS Corp. Logbooks FF-791 and FF-1007 and photographs.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 18000776914

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY Check as appropriate	02 STATUS	03 DISTANCE TO SITE															
<table border="1"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A <input type="checkbox"/></td><td>B <input type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C <input type="checkbox"/></td><td>D <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A <input type="checkbox"/>	B <input type="checkbox"/>	NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	<table border="1"><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A <input type="checkbox"/></td><td>B <input type="checkbox"/></td><td>C <input type="checkbox"/></td></tr><tr><td>D <input type="checkbox"/></td><td>E <input type="checkbox"/></td><td>F <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>	A. <u>1.9</u> (mi) B. _____ (mi)
SURFACE	WELL																
COMMUNITY A <input type="checkbox"/>	B <input type="checkbox"/>																
NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>															
D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY Check one
☒ A ONLY SOURCE FOR DRINKING ☐ B DRINKING
Other sources available
☒ C COMMERCIAL INDUSTRIAL IRRIGATION ☐ D NOT USED UNUSABLE
Other sources available
COMMERCIAL INDUSTRIAL IRRIGATION
No other water sources present

02 POPULATION SERVED BY GROUND WATER <u>735</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>1.9</u> (mi)			
04 DEPTH TO GROUNDWATER <u>15</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW _____	06 DEPTH TO AQUIFER OF CONCERN <u>15</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>10-25</u> gpd	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including location, depth, and casing) (include in comments and drawings)
One non-community well located at a church; alternate source available. Small community located 2.5-4 miles from facility uses private wells; no alternate source available. Wells in Greensboro area 90-150 ft deep

10 RECHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS	11 DISCHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS
--	---

IV. SURFACE WATER

01 SURFACE WATER USE Check one
☐ A RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C COMMERCIAL, INDUSTRIAL ☒ D NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
<u>North Buffalo Creek</u>	<input type="checkbox"/>	<u>onsite</u> (mi)
<u>Buffalo Creek</u>	<input type="checkbox"/>	<u>approx 11</u> (mi)
_____	<input type="checkbox"/>	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>4002</u> # OF PERSONS	TWO (2) MILES OF SITE B. <u>33069</u> # OF PERSONS	THREE (3) MILES OF SITE C. <u>58292</u> # OF PERSONS	02 DISTANCE TO NEAREST POPULATION <u>50.1</u> (mi)
--	--	--	--

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>many</u>	04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>50.1</u> (mi)
--	---

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, urban, densely populated urban area)
The area surrounding the facility is primarily residential



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

IDENTIFICATION
STATE 102 SITE NUMBER
NC 000876914

VI. ENVIRONMENTAL INFORMATION

11 PERMEABILITY OF UNSATURATED ZONE (check one)

☐ A 10^{-9} - 10^{-8} cm/sec ☒ B 10^{-8} - 10^{-7} cm/sec ☐ C 10^{-7} - 10^{-6} cm/sec ☐ D GREATER THAN 10^{-6} cm/sec

12 PERMEABILITY OF BEDROCK (check one)

☐ A IMPERMEABLE ☒ B RELATIVELY IMPERMEABLE ☐ C RELATIVELY PERMEABLE ☐ D VERY PERMEABLE

13 DEPTH TO BEDROCK

110 (ft)

14 DEPTH OF CONTAMINATED SOIL ZONE

(ft)

15 SOIL, etc.

16 NET PRECIPITATION

3.5 (in)

17 ONE YEAR 24 HOUR RAINFALL

2.7 (in)

18 SLOPE
SITE SLOPE

6.7 %

DIRECTION OF SITE SLOPE

NE

TERRAIN AVERAGE SLOPE

7.5 %

19 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

20 DISTANCE TO WETLANDS (in feet)

ESTUARINE

A. _____ (ft)

OTHER

B. 23 (ft)

21 DISTANCE TO CRITICAL HABITAT (in feet)

_____ (ft)

ENDANGERED SPECIES: _____

22 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0.6 (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 50.1 (mi)

AGRICULTURAL LANDS
PRIME AGRICULTURAL LAND AGRICULTURAL LAND

C. _____ (mi) D. _____ (mi)

23 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

VII. SOURCES OF INFORMATION

EPA and State of North Carolina files; Guilford Co. Water Dept.
Topographic Quad. Map (7.5" series) for Greensboro, N.C. (1957), photorevised 1968
NC DWR, Water Supply Branch. List of active community and non-community
PWS, Guilford Co., N.C.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC 8000776914

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER	3	USEPA, ESD, Athens, GA, JTW LABS	12-1-89
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL Sediment	3	same as above	1-1-89
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF NUS Corporation
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS NUS Files

V. OTHER FIELD DATA COLLECTED (OTHER THAN MEASUREMENTS)

VI. SOURCES OF INFORMATION (SEE INSTRUCTIONS, E.G., USE OF OTHER AGENCIES, RECORDS)

~~EPA~~ and NUS Corporation Logbook #4-1007 for Core Mills -
White Oak Plant, Aug. 22, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 000076914

II. CURRENT OWNERS				PARENT COMPANY (if applicable)			
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
Core Mills Corp. White Oak Plant				Core Mills Corporation			
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
2420 Fairview Street							
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
Greensboro		NC 27405					
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
III. PREVIOUS OWNERS (List most recent first)				IV. REALTY OWNERS (if applicable, list most recent first)			
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 07 ZIP CODE	
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 07 ZIP CODE	
01 NAME		02 D-B NUMBER		05 NAME		06 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, Apt. #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, Apt. #, etc.)		11 SIC CODE	
08 CITY		09 STATE 07 ZIP CODE		12 CITY		13 STATE 07 ZIP CODE	
V. SOURCES OF INFORMATION (List sources responsible, e.g., local, state, federal, private)							
EPA and State of North Carolina files							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC 0000776914

II. CURRENT OPERATOR Required if different from owner

OPERATOR'S PARENT COMPANY if applicable

01 NAME		02 D-S NUMBER		10 NAME		11 D-S NUMBER	
03 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) List most recent first; operator only if different from owner

PREVIOUS OPERATORS' PARENT COMPANIES if applicable

01 NAME		02 D-S NUMBER		10 NAME		11 D-S NUMBER	
03 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D-S NUMBER		10 NAME		11 D-S NUMBER	
03 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D-S NUMBER		10 NAME		11 D-S NUMBER	
03 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, Apt. #, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION List individuals, organizations, etc., who provided information for this report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC 5000776914

II. ON-SITE GENERATOR

01 NAME	02 D-S NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D-S NUMBER	01 NAME	02 D-S NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D-S NUMBER	01 NAME	02 D-S NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D-S NUMBER	01 NAME	02 D-S NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D-S NUMBER	01 NAME	02 D-S NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (SEE INSTRUCTIONS, U.S. ENV. PROTECTION AGENCY, FORM 8700-101)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC 8000776914

L. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DEPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY GROUND-SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SLAP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC 8000776914

II PAST RESPONSE ACTIVITIES Continued

01 ☐ R BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1 ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2 POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3 OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION FOR SOURCE INFORMATION, S.E., AND FOR SOURCE CONTROL, REPORT



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC 000776914

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY/ENFORCEMENT ACTION

NPDES permit violation in 1972 or 1973. Company paid \$15,000 fine. Regulatory/enforcement action by the State of North Carolina.

III. SOURCES OF INFORMATION (SEE SOURCE REFERENCES, E.G., AND THE SOURCE OF THE RECORD)

EPA and State of North Carolina files.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 - Site Location and Inspection Information
- Part 2 - Waste Information
- Part 3 - Description of Hazardous Conditions and Incidents
- Part 4 - Permit and Descriptive Information
- Part 5 - Water, Demographic, and Environmental Data
- Part 6 - Sample and Field Information
- Part 7 - Owner Information
- Part 8 - Operator Information
- Part 9 - Generator/Transporter Information
- Part 10 - Past Response Activities
- Part 11 - Enforcement Information

Part 1 - Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 - Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items 11-01, 02, 03, 04, and 05, Site Name and Location, 11-08 Coordinates, and 11-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D" or "C" to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *1-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
 - 11-01 Site Name: Enter the legal, common, or descriptive name of the site.
 - 11-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct 1-296 & US 99; Post Rd, 5 mi W of Rt. 5.
 - 11-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
 - 11-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item 1-01.
 - 11-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

- III-06 Site County: Enter the name of the county, parish, or borough, or borough. A parish in which the site is located.
 - III-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
 - III-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
 - *III-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenth position.
 - III-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III. Inspection Information**
- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
 - *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
 - III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1978/1992, of site operation. Check Unknown if years of operation are not known.
 - *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
 - III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
 - III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, PIT team.
 - III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
 - III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
 - III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
 - III-10 Title: Enter the titles of other parties participating in the inspection.
 - III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
 - III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties participating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m., enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

***I. Identification: Refer to Part 1-I.**

II. Waste Status, Quantities, and Characteristics: Waste Status, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
- II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
- II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- III-02 Unit of Measure: Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
- III-03 Comments: Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed these data items marked with an "at" sign (ⓐ) must be included.
- IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Off Wastes).
- IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service; the common or accepted abbreviation of the substance; the generic name of the substance, or commercial name of the substance.
- IV-03 CAS Number: Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).

- IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.
- IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

V. Feedstocks

- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.

- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 3 Description of Hazardous Conditions and Incidents

- I. Identification: Refer to Part 1-1.
- II. Hazardous Conditions and Incidents:
- II-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.

Sources of information used for the sources used to obtain information for this form. Sources cited may include sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

*I. Identification: Refer to Part 1-1.

II. Permit Information

- II-01 Type of Permit Issued: Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02 Permit Number: Enter the permit number for each issued permit.
- II-03 Date Issued: Enter the date each permit was issued.
- II-04 Expiration Date: Enter the date each permit expires or expired.
- II-05 Comments: Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01 Storage/Disposal: Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02 Amount: Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03 Unit of Measure: Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04 Treatment: If waste is treated at the site, check the appropriate box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- III-05 Other: If there are buildings on site, check this box.
- *III-06 Area of Site: Enter total area of site in acres.
- III-07 Comments: Enter any other pertinent information.

IV. Containment: Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

- *IV-01 Containment of Wastes: Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
- IV-02 Description of Drums, Diking, Liners, Barriers: Provide a narrative description of the condition of containment measures at the site, e.g., waste ade-

quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

V. Accessibility: Accessibility is an indicator of the potential for direct contact with hazardous substances.

*V-01 Waste Easily Accessible: If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

V-02 Comments: Additional information about accessibility to hazardous waste may be provided.

VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographics, and Environmental Data

*I. Identification: Refer to Part 1-1.

II. Drinking Water Supply

- II-01 Type of Drinking Water Supply: Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- II-02 Status: Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03 Distance to Site: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

III-01 Groundwater Use in Vicinity: Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unusable indicates that groundwater use in the area is not critical.

III-02 Population Served by Groundwater: Enter the number of people served by groundwater in the vicinity of the site. Population for the purpose of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.

III-04 Depth to Groundwater: Enter the depth in feet to groundwater.

III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.

III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.

III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.

III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.

III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including usage, depth, and location relative to population and buildings.

III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.

III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source, Irrigation, Economically Important Reserves, Commercial/Industrial, Not Currently Used.

IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purpose of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.

V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.

V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.

VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.

VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.

VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.

VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.

VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.

VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.

VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.

VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.

VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.

VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.

VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat.

in endangered species. Enter the name(s) of the endangered species.

VI-13 Land Use in Vicinity: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

VI-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

VII. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Sample and Field Information

01. Identification: Refer to Part 1-I.

II. Samples Taken

II-01 Number of Samples Taken: Next to each sample type enter the number of samples of that type taken.

II-02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.

II-03 Estimated Data Results Available: Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

III-01 Type: Enter the type, e.g., reflectivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.

III-02 Comments: Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

IV-01 Type: If photographs of the site have been taken, check the appropriate box(es) to indicate the type.

IV-02 In Custody Of: Enter the name of the organization or person who has custody of the photographs.

IV-03 Maps: Check the appropriate box to indicate that maps of the site area have been prepared or obtained.

IV-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

V. Other Field Data Collected: Provide a narrative description of any other field data collected.

VI.

Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Owner Information

01. Identification: Refer to Part 1-I.

II. Current Owner(s) - Parent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.

II-02 D&B Number: Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business, mailing, or residential street address of the owner.

II-04 SIC Code: If applicable, enter the owner's primary SIC Code.

II-05 City: Enter the city of the owner's business, mailing, or residential address.

II-06 State: Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.

II-07 Zip Code: Enter the five digit zip code for the owner's business, mailing, or residential address.

II-08 Name: If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.

II-09 D&B Number: Enter the parent company's Dun and Bradstreet number.

II-10 Street Address: Enter the business or mailing street address of the parent company.

II-11 SIC Code: If applicable, enter the parent company's primary SIC code.

II-12 City: Enter the city of the parent company's business or mailing address.

II-13 State: Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.

II-14 Zip Code: Enter the five digit zip code for the parent company's business or mailing address.

III. Previous Owner(s): List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7

III-01 Name: Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

12 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.

III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.

III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.

III-05 City: Enter the city of the previous owner's business, mailing, or residential address.

III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.

III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.

IV. Realty Owner(s): Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.

IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.

IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.

IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.

IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.

IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.

IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.

IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.

V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Operator Information

I. Identification: Refer to Part 1-1.

II. Current Operator—Operator's Parent Company: Information on operators is applicable when the operator is not the owner.

II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.

II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.

II-03 Street Address: Enter the operator's business, mailing, or residential street address.

II-04 SIC Code: If applicable, enter the operator's primary SIC Code.

II-05 City: Enter the city of the operator's business, mailing, or residential address.

II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.

II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.

II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.

II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

II-10 Name: If applicable, enter the legal name of the operator's parent company.

II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.

II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.

II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.

II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.

II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.

II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.

III. Previous Operator(s)—Previous Operators' Parent Companies

III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.

III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.

III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.

III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.

III-05 City: Enter the city of the previous operator's business, mailing, or residential address.

III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.

III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.

III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.

III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

- III-10 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.

IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

*I. Identification: Refer to Part 1-I.

II. On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.

II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.

II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business or mailing street address of the on-site generator.

II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.

II-05 City: Enter the city of the on-site generator's business or mailing address.

II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.

II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.

III. Off-Site Generator(s): These companies or agencies off-site who have generated waste which has been disposed at the site are listed here.

III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.

III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

III-03 Street Address: Enter the business or mailing street address of the off-site generator.

III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.

III-05 City: Enter the city of the off-site generator's business or mailing address.

III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.

III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.

IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.

IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.

IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.

IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.

IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.

IV-05 City: Enter the city of the transporter's business, mailing, or residential address.

IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.

IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.

V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 10 Past Response Activities

*I. Identification: Refer to Part 1-I.

II. Past Response Activities

II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.

II-02 Date: Enter the start date (or approximate date) of the activity.

II-03 Agency: Enter the name of the Agency responsible for the activity.

II-04 Description: Provide a brief narrative description of the activity.

III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 11 Enforcement Information

I. Identification Refer to Part I-1.

II. Enforcement Information

II-01 Past Regulatory Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-60-6	Potassium Dichromate
2. 7440-38-0	Antimony	15. 7738-69-7	Cupric Sulfate	28. 1310-68-3	Potassium Hydroxide
3. 1308-64-4	Antimony Trioxide	16. 1317-38-1	Cuprous Oxide	29. 118-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-6	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7847-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-98-6	Barium Sulfide	19. 7884-38-3	Hydrogen Fluoride	32. 7844-78-8	Stannic Chloride
7. 7726-98-8	Bromine	20. 1338-28-7	Lead Oxide	33. 7772-88-8	Stannous Chloride
8. 108-98-0	Butadiene	21. 7438-67-8	Mercury	34. 7884-83-8	Sulfuric Acid
9. 7440-43-8	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-60-8	Chlorine	23. 91-20-3	Naphthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromium	24. 7440-02-0	Nickel	37. 7844-86-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7887-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-0	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 543-82-1	Barium Cyanide	93. 13302-03-6	Cupric Acetateammonite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-38-4	Cupric Chloride
4. 75-08-6	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3281-23-6	Cupric Nitrate
5. 508-88-7	Acetyl Bromide	51. 108-47-0	Benzonitrile	96. 8893-88-3	Cupric Oxalate
6. 75-38-6	Acetyl Chloride	52. 98-88-4	Benzyl Chloride	97. 7788-68-7	Cupric Sulfate
7. 107-02-8	Acetone	53. 108-44-7	Benzyl Chloride	98. 10388-38-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 818-82-7	Cupric Tartrate
9. 124-04-8	Adipic Acid	55. 7787-47-8	Beryllium Chloride	100. 808-77-4	Cyanogen Chloride
10. 308-00-2	Aldrin	56. 7787-48-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13887-68-4	Beryllium Nitrate	102. 84-76-7	2,4-D Acid
12. 107-18-8	Allyl Alcohol	58. 123-68-4	Beryllium Nitrate	103. 84-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Alcohol	104. 88-28-3	DDT
14. 7664-41-7	Ammonia	60. 108-73-0	Butylamine	105. 333-41-6	Diazine
15. 631-81-8	Ammonium Acetate	61. 107-83-6	Butyric Acid	106. 1918-88-0	Diazole
16. 1883-83-4	Ammonium Benzoate	62. 843-88-6	Cadmium Acetate	107. 1184-88-6	Dichlorobenzil
17. 1088-33-7	Ammonium Bicarbonate	63. 7788-43-6	Cadmium Bromide	108. 117-88-6	Dichlorobenzene
18. 7788-68-7	Ammonium Chloride	64. 10188-84-2	Cadmium Chloride	109. 28321-23-6	Dichlorobenzene (all isomers)
19. 1341-48-7	Ammonium Fluoride	65. 7778-44-1	Cadmium Arsenate	110. 283-28-18-7	Dichloropropene (all isomers)
20. 10188-38-0	Ammonium Sulfate	66. 83748-18-8	Cadmium Arsenite	111. 28388-23-6	Dichloropropene (all isomers)
21. 1111-78-8	Ammonium Carbonate	67. 75-28-7	Cadmium Carbide	112. 8888-18-6	Dichloropropene-Dichloropropene Mixture
22. 12128-82-8	Ammonium Chloride	68. 13788-18-0	Cadmium Chromate		
23. 7788-68-7	Ammonium Chromate	69. 888-81-8	Cadmium Cyanide	113. 75-88-0	2,3-Dichloropropenoic Acid
24. 3912-88-6	Ammonium Citrate, Citrate	70. 28384-88-2	Cadmium Dodecylbenzenesulfonate	114. 88-78-7	Dichloroacetic Acid
25. 13288-82-8	Ammonium Fluoroborate			115. 88-87-1	Dichloroacetic Acid
26. 12128-81-8	Ammonium Fluoride	71. 7778-84-3	Cadmium Hypochlorite	116. 108-88-7	Dichloroacetic Acid
27. 1338-21-6	Ammonium Hydroxide	72. 138-88-2	Capten	117. 124-88-8	Dichloroacetic Acid
28. 6088-70-7	Ammonium Oxide	73. 88-88-2	Carbaryl	118. 28184-84-6	Dichlorobenzene (all isomers)
29. 18819-18-0	Ammonium Sulfate	74. 1088-88-2	Carburene	119. 81-38-6	Dichlorobenzene (all isomers)
30. 7773-08-0	Ammonium Sulfate	75. 75-18-0	Carbon Disulfide	120. 28321-14-6	Dichlorobenzene (all isomers)
31. 12128-78-1	Ammonium Sulfate	76. 88-88-6	Carbon Tetrachloride	121. 88-88-7	Dichlorobenzene (all isomers)
32. 10188-84-0	Ammonium Sulfate	77. 87-74-0	Chloroacetic Acid	122. 283-84-4	Dichlorobenzene (all isomers)
33. 14387-43-8	Ammonium Tartrate	78. 7788-88-6	Chloroacetic Acid	123. 338-84-1	Dichlorobenzene (all isomers)
34. 1782-88-4	Ammonium Thiocyanate	79. 108-88-7	Chloroacetic Acid	124. 27178-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 87-88-3	Chloroform	125. 118-88-7	Endosulfan (all isomers)
36. 638-83-7	Amyl Acetate	81. 7788-84-6	Chloroformic Acid	126. 73-38-8	Endrin and Metabolites
37. 63-83-3	Asoline	82. 2831-88-2	Chloropyridine	127. 108-88-8	Epichlorohydrin
38. 7847-18-0	Antimony Pentachloride	83. 1088-38-4	Chromic Acetate	128. 888-12-8	Ethion
39. 7788-61-8	Antimony Trifluoride	84. 7788-84-6	Chromic Acid	129. 108-41-4	Ethyl Benzene
40. 10828-81-0	Antimony Trisulfide	85. 10181-83-8	Chromic Sulfate	130. 107-18-3	Ethylene Diamine
41. 7783-88-4	Antimony Trifluoride	86. 10848-88-6	Chromous Chloride	131. 108-88-4	Ethylene Dibromide
42. 1308-64-4	Antimony Trioxide	87. 844-18-3	Cobaltous Formate	132. 107-08-2	Ethylene Dichloride
43. 1303-33-0	Arsenic Disulfide	88. 14017-41-6	Cobaltous Sulfonate	133. 88-88-4	EDTA
44. 1388-28-2	Arsenic Pentoxide	89. 88-73-4	Coumaphos	134. 1188-87-8	Ferrous Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	90. 1318-77-3	Crocid	135. 2844-87-4	Ferrous Ammonium Oxalate
46. 1327-43-3	Arsenic Trisulfide	91. 4178-38-3	Crotonaldehyde	136. 7788-68-0	Ferrous Chloride

Name Cone Mills-White Oak EPA I.D. N.C. Doc 776919 County Lenoir
 Location 2420 FAIRVIEW ST Contact Person Tom Alspaugh Date 1/25/81
 Survey Participants Steve Feltner

INSTRUCTIONS: In the space provided, use the listed codes to indicate status.
 C - Compliance, NC - Noncompliance, NA - Not Applicable

1. EPA identification number, if applicable (262.12) N.C. Doc 776919
2. Waste Volume (261.5)
 - a. *Small Generator (<1000 kg/Mo) ☒
 - b. *Large Generator (>1000 kg/Mo) ☐

(*Note: Special limits on 261.33(e) list)
3. Briefly describe the plant operations and the type of waste generated. (Volume, form) 15 gallons of waste solvents generated on a weekly basis
4. Where is the waste currently being disposed? Waste solvent is discharged to Plant wastewater Treatment System
5. Check Manifest (262.20 - 262.23)
 - a. identification (I.D. code, name, address, date) yes
 - b. waste information (shipping description, hazard class, quantity and unit) yes
 - c. emergency information (immediate response information, special handling instructions, phone no.) yes
 - d. certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA*. yes
6. Check Containers (262.30)
 - a. improper construction —
 - b. leaks or corrosion —
 - c. heat generation from incompatible wastes —

7. Labeling practices and marking (262.31 - 262.32)

a. DOT shipping description

b. Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator's Name and Address

Manifest Document Number

Waste shipped in bulk

8. Placards for transport (262.33)

9. Check accumulation time of wastes: (262.34)

N/A

a. check records and dates

b. check containers

10. Recordkeeping practices:

a. manifests (262.40)

b. test results (262.40)

c. annual reports (262.41)

d. exception reports (262.42)

yes

yes

11. International shipments (262.50)

N/A

12. Permit information:

a. Check all applicable permits held by the generator:

☒ NPDES Permit

☒ SPCC Plan

☐ State Permit (Specify)

☒ Air Permits

☐ Local Permit

☐ RCRA Disposer

☒ RCRA Storage

☐ RCRA Treater

☐ Other (Specify)

b. In Compliance ☒ Yes ☐ No ☐ Unknown with respect to:

Regulation Name/#

13. Past regulatory actions: (Circle response)

None

Yes

If yes, summarize:

NPDES discharge questioned 7-8 years ago. Company paid \$15,000 fine

- Continued

14. Inspection activity (past or on-going): (Circle response)

	Date of Past Action	Performed by EPA or <u>State</u>
None		
Yes -- Specify:		

Describe:

P.R.C.D.
N.P.L.E.S. Discharge
Requirements

15. Remedial activity (past or on-going): (Circle response)

None

Yes -- Specify:



ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Pencil Program
(Read the "General Instructions" before starting.)

1. EPA L.D. NUMBER

NC D 0 0 0 7 7 6 9 1 4

GENERAL INSTRUCTIONS

If a preprinted label has been provided, it in the designated space. Review the information carefully; if any of it is incorrect, (through it and over the correct data in appropriate fill-in area below. Also, if any preprinted data is absent (the area to left of the label space that the information should appear), please provide it in proper fill-in area/ below. If the label complete and correct, you need not complete I, III, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to an question, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' FOR ATTACHED			SPECIFIC QUESTIONS	MARK 'X' FOR ATTACHED		
	YES	NO	ATTACHED		YES	NO	ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (either other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any prohibited water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1	CONC	CONE MILLS CORPORATION WHITE OAK PLANT
---	------	--

IV. FACILITY CONTACT

A. NAME & TITLE (last, first & middle)		B. PHONE (area code & no.)		
2	A. L. SPANGLER, TOM MGR WATER & WASTE	919	379	6579

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX																				
3	2	4	2	0	F	A	I	R	V	I	E	W	S	T	R	E	E	T		
B. CITY OR TOWN										C. STATE		D. ZIP CODE								
4	G	R	E	E	N	S	B	O	R	O	N	C	2	7	4	0	5			

VL FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER																	
5	2	4	2	0	F	A	I	R	V	E	E	S	T	R	E	E	T
B. COUNTY NAME																	
G	U	I	L	F	O	R	D										
C. CITY OR TOWN										D. STATE		E. ZIP CODE		F. COUNTY CODE (If known)			
6	G	R	E	E	N	S	B	O	R	O	N	C	2	7	4	0	5

VII. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
7	2	2	1	(specify)	Weave	7	(specify)
				Broadwoven fabric, cotton			
C. THIRD				D. FOURTH			
7	(specify)	7	(specify)				

VIII. OPERATOR INFORMATION

A. NAME												B. Is the name listed item VIII-A also owner?	
CONE MILLS CORPORATION												<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)												D. PHONE (area code & no.)	
F - FEDERAL				M - PUBLIC (other than federal or state)				P (specify)				A 9 1 9 3 7 9 5 2 2 0	
S - STATE				O - OTHER (specify)									
P - PRIVATE													
E. STREET OR P.O. BOX													
1201 MAPLE STREET													
F. CITY OR TOWN						G. STATE		H. ZIP CODE		IX. INDIAN LAND			
GREENSBORO						NC		27405		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)				B. PSD (Air Emissions from Proposed Sources)			
NC 00008 76				SP			
C. UIC (Underground Injection of Fluids)				D. OTHER (specify)			
U				(specify)			
E. RCRA (Hazardous Wastes)				F. OTHER (specify)			
R				(specify)			

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Integrated textile plant; fiber through finishing of broad woven fabric, all cotton and some cotton and synthetic blends.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)		B. SIGNATURE		C. DATE SIGNED	
Harper J. Elam, III Vice President & General Counsel		H. J. Elam III		11/17/80	

COMMENTS FOR OFFICIAL USE ONLY

C											
---	--	--	--	--	--	--	--	--	--	--	--



Reference No. 3

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive-Plaza West
Winston-Salem, N.C. 27106
(919) 761-2390

September 23, 1982

MEMORANDUM

TO: O.W. Strickland, Head
Solid and Hazardous Waste Management
Branch

FROM: Steve Phibbs, District Sanitarian
North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405
E.P.A. ID#NCD000776914



On September 21, 1982 a RCRA hazardous waste inspection was conducted at the Cone Mills - White Oak Plant in Greensboro, N.C. No violations were noted during the inspection.

SP:kd

1) Facility Information

Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405

2) Facility Contact

Tom Alspaugh

3) Survey Participants

Tom Alspaugh, Cone Mills
Arthur Toompas, Cone Mills
Steve Phibbs, District Sanitarian, DHS

4) Date of Inspection

September 21, 1982

5) Applicable Regulations

40 CFR Part 262 and Part 265

6) Scope of Survey

No change

7) Facility Description

No change

4) ~~Addendum~~ - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Deficiencies

None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR
OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT
FACILITIES

Name of Site Cone Mills Corp-White Oak Plant EPA I.D. NC0000716919 County Durham
 Location 2430 Fairview St., Greensboro, N.C. 27405 Signature of Facility Contact J. R. DeWitt
 Date Sept. 21, 1982 Signature of Inspector(s) Steve Phillips
 INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.


	<u>C</u>	<u>NC</u>	<u>NA</u>	<u>Violation(s)</u>
1. GENERAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. GENERAL FACILITY STANDARDS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. PREPAREDNESS AND PREVENTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. GROUND-WATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. CLOSURE AND POST-CLOSURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. FINANCIAL REQUIREMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. USE AND MANAGEMENT OF CONTAINERS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. TANKS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. SURFACE IMPOUNDMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. WASTE PILES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. LAND TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. LANDFILLS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15. INCINERATORS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. THERMAL TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
17. CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. UNDERGROUND INJECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Generator, TSD Facility

Imminent hazard

YES
()

NO
(☒)

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION 01 STATE 02 SITE NUMBER NC D000776914	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) <u>Cone Mill Corp./White Oak Plant</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>2420 Fairview Street</u>	
03 CITY <u>Greensboro</u>	04 STATE <u>NC</u>	05 ZIP CODE <u>27405</u>	06 COUNTY <u>Guilford</u>
09 COORDINATES LATITUDE <u>36 06 15.</u>		LONGITUDE <u>079 46 15.</u>	
10 DIRECTIONS TO SITE (Starting from nearest public road) <u>In Greensboro on I85 take US 29 North. Exit right on 16th Street. Turn left on 16th Street. Cone Mills White Oak Plant is located on left at intersection of 16th and Fairview Streets.</u>			
III. RESPONSIBLE PARTIES			
01 OWNER (if known) <u>Cone Mills Corp.</u>		02 STREET (Business, mailing, residential)	
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER ()
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>11 / 17 / 80</u> MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 102(a)) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>5 / 11 / 84</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ CONTRACTOR NAME(S): <u>RCRA Compliance Inspection</u>	
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <u>1980</u> START YEAR <u>---</u> END YEAR <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <u>Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination onsite (in the plant and creek areas) and offsite via conveyance down the creek.</u>			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <u>Possibly surface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.</u>			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Remedies) <input type="checkbox"/> A. HIGH (inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (inspection required) <input type="checkbox"/> C. LOW (inspect on time available basis) <input type="checkbox"/> D. NONE (no further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT <u>T.A. Alspaugh</u>		02 OF (Agency/Organization) <u>Cone Mills</u>	
04 PERSON RESPONSIBLE FOR ASSESSMENT <u>Lee Crosby</u>		06 AGENCY <u>NC DHS</u>	08 ORGANIZATION <u>Sol & Haz Waste Mgt. Br.</u>
		07 TELEPHONE NUMBER <u>(919) 733-2178</u>	03 TELEPHONE NUMBER <u>(919) 379-6579</u>
		05 DATE <u>1 / 8 / 85</u> MONTH DAY YEAR	



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Burial and/or land application of dye wastes and/or various solvents.

01 ☒ B SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Discharge of various solvents documented. Check for dye wastes also.

01 ☐ C CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☐ D FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☒ E DIRECT CONTACT

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Effluent discharge and land application or burial.

01 ☒ F CONTAMINATION OF SOIL

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: _____
(Area)

04 NARRATIVE DESCRIPTION

In areas of land application.

01 ☒ G DRINKING WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Through contamination of groundwater or surface water supplies although none are suspected at this time.

01 ☒ H WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

In any on-site contaminated areas.

01 ☒ I POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Off-site movement of surface or groundwaters



Reference No. 5

STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

P. O. Box 2091

Raleigh 27602

XXXXXXXXXXXX
Director

Ronald H. Levine, M.D.
Acting Director

August 18, 1981

NCD 000 776 914

Mr. T. A. Alspaugh
Cone Mills Corporation
White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

RE: Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this department's understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist
Solid & Hazardous Waste Management Branch
Environmental Health Section

WP:lc

cc: Mr. Joe Deakins
Mr. Steve Phibbs
Mr. Jim Moore
Mr. Rick Doby

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

August 5, 1981



Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602

Re: PCB Transformer Blowup
Cone Mills Corporation
Salisbury Plant
Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gloves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top 1" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.

Mr. William Pai
Page 2
August 5, 1981

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh, NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

Sincerely,


T. A. Alspaugh
Manager, Water & Air Resources

crn

cc: Mr. Lee Clyburn, Plant Engineer
Mr. Graham Knight
Mr. Arthur Toompas
Mr. Rick Doby, State of NC Engineer

FORM 3 RCRA

ENVIRONMENTAL PROTECTION AGENCY
HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Permit Program
(This information is required under Section 3006 of RCRA.)

Form Approved 19 No 58-5800C

I. EPA I.D. NUMBER
FNCDD000776914

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)

Reference No. 7

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate data)

- ☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

- ☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITY, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEG

B. REVISED APPLICATION (place an "X" below and complete item I above)

- ☐ 1. FACILITY HAS INTERIM STATUS

- ☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
<u>Storage:</u>		
CONTAINER (barrel, drum, etc.)	001	GALLONS OR LITERS
TANK	002	GALLONS OR LITERS
WASTE PILE	003	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	004	GALLONS OR LITERS

<u>Other:</u>		
INJECTION WELL	070	GALLONS OR LITERS
LANDFILL	000	ACRES-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	001	ACRES OR HECTARES
OCEAN DISPOSAL	002	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	003	GALLONS OR LITERS

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	D

UNIT OF MEASURE	UNIT OF MEASURE CODE
LITERS PER DAY	V
TONS PER HOUR	B
METRIC TONS PER HOUR	W
GALLONS PER HOUR	S
LITERS PER HOUR	H

<u>Incineration:</u>		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the process in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
ACRES-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	G

EXAMPLE FOR COMPLETING ITEM III shown in line numbers X-1 and X-2 below. A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C									
DUP									
LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT	2. UNIT OF MEASURE (enter code)	
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	1000	G		7				
2	S 0 2	1000	G		8				
3					9				
4					10				

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE **CODE**
 POUNDS.....P
 TONS.....T

METRIC UNIT OF MEASURE **CODE**
 KILOGRAMS.....K
 METRIC TONS.....M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous wastes: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Notes: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *shown in line numbers X-1, X-2, X-3, and X-4 below* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO. /2	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (enter code)	D. PROCESSES				
				1. PROCESS CODES (enter)			2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
X-1	K 0 5 4	900	P	T	0	3 D 8 0		
X-2	D 0 0 2	400	P	T	0	3 D 8 0		
X-3	D 0 0 1	100	P	T	0	3 D 8 0		
X-4	D 0 0 2						Included with above	

EPA I.D. NUMBER (enter from page 1)										FOR OFFICIAL USE ONLY									
N C D 0 0 0 7 7 6 9 1 4 3 1										W DUP 2 DUP									

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

WASTE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D 0 0 1	24000	P	S 01 S 0 2	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

F	N	C	D	0	0	0	7	7	6	9	1	4	6
---	---	---	---	---	---	---	---	---	---	---	---	---	---

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

3	6	0	6	1	5
---	---	---	---	---	---

7	9	4	6	1	5
---	---	---	---	---	---

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

1. NAME OF FACILITY'S LEGAL OWNER												2. PHONE NO. (area code & no.)			
-----------------------------------	--	--	--	--	--	--	--	--	--	--	--	--------------------------------	--	--	--

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

3. STREET OR P.O. BOX				4. CITY OR TOWN				5. ST.		6. ZIP CODE			
-----------------------	--	--	--	-----------------	--	--	--	--------	--	-------------	--	--	--

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

 Harper J. Elam, III
 Vice President & General Counsel

B. SIGNATURE



C. DATE SIGNED

11/17/80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED



CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

February 28, 1983



Mr. Thomas C. Karnoski
Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
P.O. Box 2091
Raleigh, NC 27602-2091

Re: Hazardous Waste Management Permit
Application
Cone Mills Corporation
White Oak Plant
Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone conversation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

Sincerely,

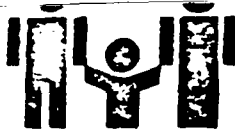
A handwritten signature in dark ink, appearing to read "T. A. Alsbaugh".

T. A. Alsbaugh
Manager, Water & Air Resources

lt

cc: Mr. Garland Coffey
Mr. Arthur J. Toompas

KEITH
CANT YOU
PLEASE NAME
THW. TCK



DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

1 2

Tom A. Alspaugh
Cone Mills White Oak Plant
4100 Pleasant Garden Road
Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.



Tom A. Alspaugh
Page 2
July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602

Very truly yours,

A handwritten signature in dark ink, appearing to read "O. W. Strickland", is written over the typed name.

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director
919/733-3446

Mr. T.A. Alspaugh
Cone Mills Corporation
2420 Fairview St.
Greensboro, NC 27405

Date: April 29, 1985

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you, we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<u> </u>	<u> X </u>	generator
<u> </u>	<u> </u>	transporter
<u> </u>	<u> </u>	treater
<u> </u>	<u> </u>	storer
<u> </u>	<u> </u>	disposer
<u> X </u>	<u> </u>	small generator

We are advising the EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is is not X being cancelled.

Cordially,

Keith Lawson, Environmental Chemist
Solid & Hazardous Waste Management Branch
Environmental Health Section

cc: Doug McCurry
EPA Region IV
Emil Breckling

Map of City of Greensboro, North Carolina. 1985.

(Large map. On file at NUS Corporation.)



LEVEL

NOTEBOOK NO. 311

F4-791

Cone Mills White Oak

F4-8803-57

Greensboro, N.C.

Joan J. Dugan
Project Manager

**LOGBOOK REQUIREMENTS
REVISED - JANUARY 6, 1988**

**NOTE: ALL LANGUAGE SHOULD BE FACTUAL
AND OBJECTIVE**

1. Record on front cover of the Logbook:
TDD No., Site Name, Site Location, Project Manager
2. All entries are made using ink.
3. Provide statement referencing Equipment Location Log.
4. Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
5. Sign and date each page. Project Manager is to review and sign off on each logbook daily.
6. A single line is drawn through error. Each correction is dated/initialed.
7. Report weather conditions. Provide general site description and remarks.
8. Document all changes from project planning documents.
9. Provide a site sketch with sample locations.
10. Document all calibration and pre-operational checks of equipment.
11. Provide reference to Sampling Field Sheets for detailed sampling information.
12. Maintain photo log by completing the stamped information at the end of the logbook.
13. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

000001

4/19/88

1030

Arrived at the Core
Mills Facility located at
the intersection of 16th
Street and Fairview Street

The Facility covers several
square blocks and is still
active.

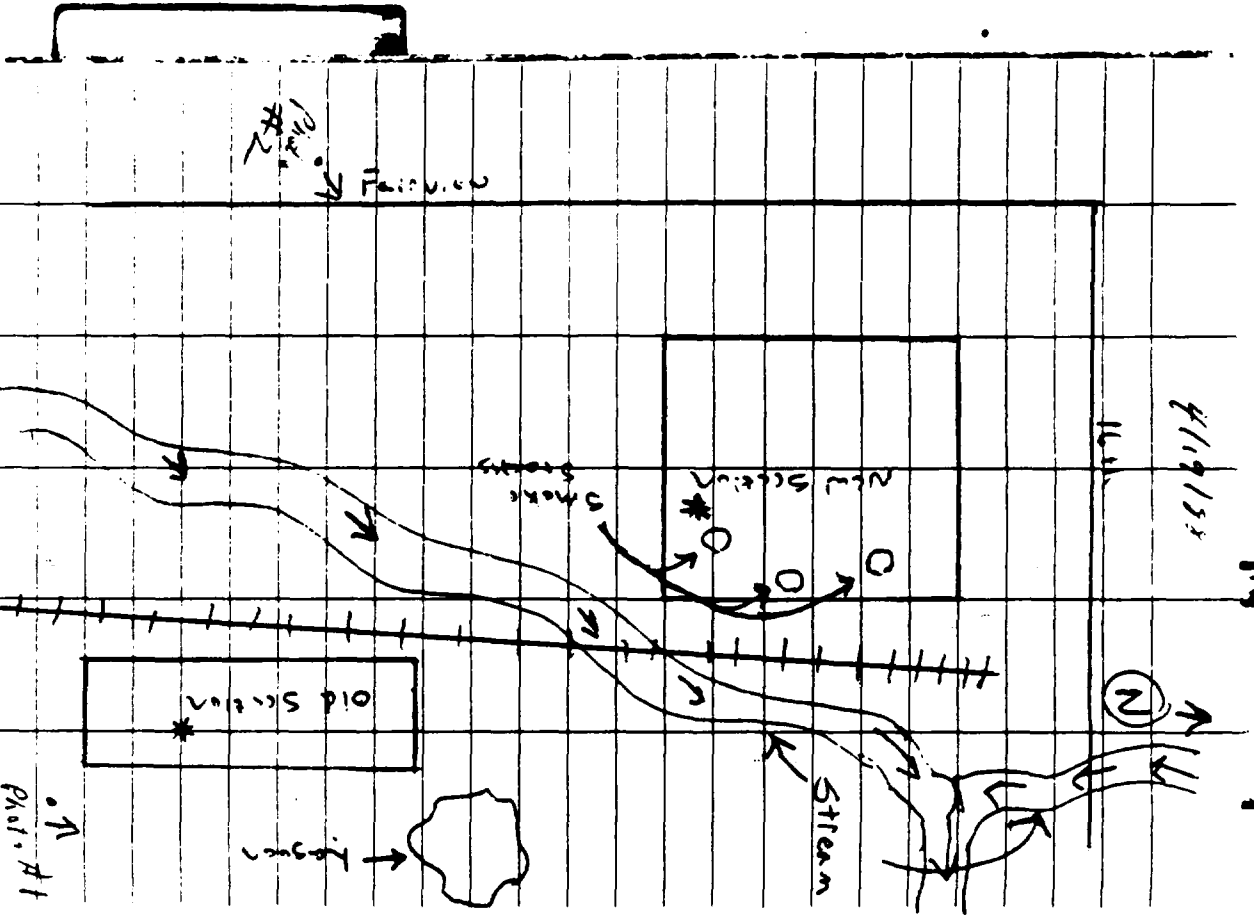
A new portion of the
plant is located along
16th Street while the
older looking section is
located South of 16th
off Fairview St.

A creek runs between
the old + new sections
as well as a rail
road track.

Chris Brown

4/19/55

(N)



000000

* Each section actually consists of a number of buildings.
Chas. Thompson

4/17/55

0000003

Access to site is well restricted with fences, gates and security personnel.

Due to site restrictions difficult to determine any waste disposal areas - old or new.

There was however, a brown North east of the old section - did not see any inlet or outlet pipes.

The area surrounding the plant site is primarily residential.

A recreational facility is located across Fairview from the plant's main entrance.

A school is located

Chas. Thompson

4/19/88

approximately 2 blocks
west at 14th and
Golden Gate Streets.

"Graber Case School"

not readily apparent what
grade level school it is.

Jean Dupont
4/29/88

The work plan was discussed with
and distributed to the field team
members.

Jean Dupont
4/29/88

Signed:

Chris Brown
[Signature]

000006.1

Chris Brown

000005

Date	4/19/88	C. Brown
	10:30	
	Cone Hills - Greensboro, N.C.	
	Overview looking north	
Date	4/19/88	C. Brown
	10:30	
	Cone Hills - Greensboro, N.C.	
	Creek running through facility - looking N-NE from Fairview Street	
Date	4/19/88	C. Brown
	10:30	
	Cone Hills - Greensboro, N.C.	
	Warehouses in foreground - looking SW	

Date	4/19/88	C. Brown
	10:30	
	Cone Mills - Greensboro, N.C.	
	Recreational area located north of Cone Mills Plant, south of Rankin School	
Date		
Date		
Date		

1.6

Date 4/19/88 By whom C. Brown (2)

Time 10:00 If report to meet

Location Quinn Mills - Greensboro, NC

Project new section of facility
for 4145 NW 14

Date 4/19/88 By whom C. Brown (2)

Time 10:30 If report to meet

Location Quinn Mills - Greensboro, NC

Project Truck and other section
of facility - looking for
parking space

Date 4/19/88 By whom C. Brown (3)

Time 11:30 If report to meet

Location Gene Mills - Greensboro, NC

Project Lagoon - East part of site

000005

Dataset TEST successfully created

MENU: Graphical Exposure Modeling System

- | | |
|-------------------------|------|
| 1. Estimation | (ES) |
| 2. Modeling | (MO) |
| 3. Geodata Handling | (GH) |
| 4. File Management | (FM) |
| 5. Statistics | (ST) |
| 6. Graphics | (GR) |
| 7. Utilities | (UT) |
| 8. Information and News | (IN) |

Enter an option number or a procedure name (in parentheses)
or a command: HELP, HELP option, BACK, CLEAR, EXIT, TUTOR

GEMS> DATASET

MENU: Review a Dataset

ref	par-name	parameter description	value	index
1.	DATASET	Name of the dataset		
2.	VARIABLES	Names of the output variables	*	(1)

Enter one or more combinations of: reference or parameter name and value(s)
[ref1 value1, ref2 value2, ...] or a command: HELP, NEXT, BACK, END, CLEAR, EXIT
GEMS> 1 TEST

Enter one or more combinations of: reference or parameter name and value(s)
[ref1 value1, ref2 value2, ...] or a command: HELP, NEXT, BACK, END, CLEAR, EXIT
GEMS> NEXT

36° 06' 30"
79° 46' 15"

List of Dataset: TEST Number of Records = 6 Group = 1

REC #	I	POP	I	HOUSE	I	DISTANCE	I	SECTOR
1	I	464	I	215	I	0.400000	I	1
2	I	848	I	375	I	0.810000	I	1
3	I	6690	I	2706	I	1.600000	I	1
4	I	25067	I	8759	I	3.200000	I	1
5	I	25203	I	9660	I	4.800000	I	1
6	I	34678	I	11741	I	6.400000	I	1

0 - 1/4 m.
1/4 - 1/2 m.
1/2 - 1 m.
1 - 2 m.
2 - 3 m.
3 - 4 m.

Press RETURN to page forward, enter Pnnn to position the starting record
of the next page, enter BACK to reselect variables, or enter END to stop
GEMS> EXIT

Type YES to confirm the EXIT command; type NO to restart GEMS
GEMS> YES

Temporary data created in the current session

SOIL SURVEY OF Guilford County, North Carolina



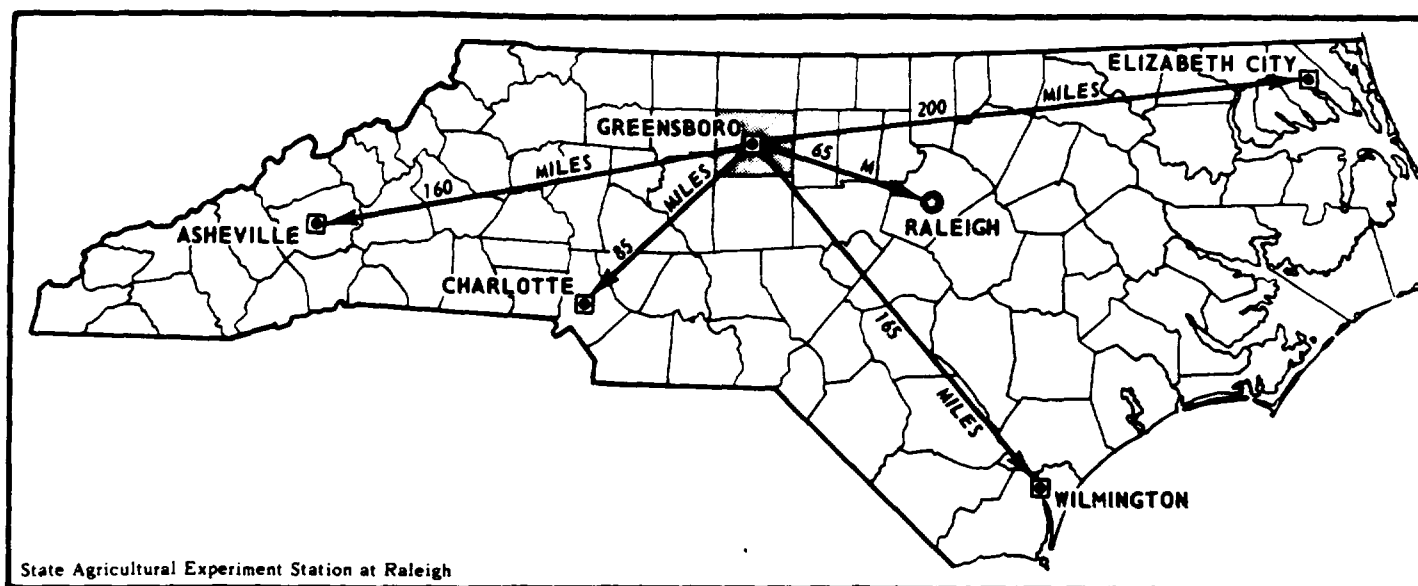
**United States Department of Agriculture
Soil Conservation Service**

**In cooperation with
Board of Commissioners, Guilford County, North Carolina, and
North Carolina Agricultural Experiment Station**

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Issued December 1977



Location of Guilford County in North Carolina.

SOIL SURVEY OF GUILFORD COUNTY, NORTH CAROLINA

By Ronald B. Stephens

Soils surveyed by E. H. Karnowski, R. B. Stephens, Marcus R. Bostian,

R. L. Howard, Roger J. Leab, and Michael L. Sherrill,

Soil Conservation Service

United States Department of Agriculture, Soil Conservation Service, in
cooperation with Board of Commissioners, Guilford County, North Carolina,
and North Carolina Agricultural Experiment Station

Introduction

GUILFORD COUNTY is an agricultural, industrial, and urbanized county in north-central North Carolina (See map on facing page). It is bounded on the east by Alamance County, on the north by Rockingham County, on the west by Forsyth County, and on the south by Randolph County. The area of Guilford County is 415,940 acres. In 1970 the population was 288,590. The City of Greensboro is the county seat and is at the geographic center of the county.

Guilford County is in the Piedmont physiographic province. The county is generally rolling with moderately steep slopes along the drainageways.

Guilford County is rapidly growing into an industrial and urban county. Well diversified industry, government at all levels, educational institutions, wholesale and retail outlets, and transportation all contribute substantially to the economy of the county.

The northern part of the county is still primarily agricultural. Tobacco provides about 80 percent of the gross farm income from the major crops. Corn, hay, wheat, soybeans, oats, sweet potatoes, Irish potatoes, lespedeza seed, and cotton account for most of the remaining farm income. Beef and dairy livestock and poultry are also raised.

General Nature of the County

This section gives general facts about Guilford County. It briefly discusses climate, history, cultural facilities, industry and transportation, water supply, and land use.

Climate

Guilford County is hot and generally humid in summer because of its moist maritime air. Winter is moderately cold but short because the mountains to the west protect the county against many cold waves. Precipitation is quite evenly distributed throughout the year and is adequate for all crops.

Table 1 gives data on temperature and precipitation for the survey area, as recorded at Greensboro for the period 1951 to 1974. Table 2 shows probable dates of the first freeze in fall and the last freeze in spring. Table 3 provides data on the length of the growing season.

In winter the average temperature is 40 degrees F, and the average daily low is 29 degrees. The lowest temperature on record, -1 degree, occurred at Greensboro on January 16, 1972. In summer the average temperature is 76 degrees, and the average daily high is 86 degrees. The highest temperature, 102 degrees, was recorded on June 27, 1954.

Growing degree days, shown in table 1, are equivalent to "heat units." Beginning in spring, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (50 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

Of the total annual precipitation, 22 inches, or 52 percent, usually falls during the period April through September, which includes the growing season for most crops. Two years in 10, the April-September rainfall is less than 19 inches. The heaviest 1-day rainfall during the period of record was 6.24 inches at Greensboro on October 15, 1954. Thunderstorms number about 47 each year, 29 of which occur in summer.

Average seasonal snowfall is 11 inches. The greatest snow depth at any one time during the period of record was 15 inches. On the average, 4 days have at least 1 inch of snow on the ground, but the number of days varies greatly from year to year.

The average relative humidity in midafternoon is about 55 percent. Humidity is higher at night in all seasons, and the average at dawn is about 85 percent. The percentage of possible sunshine is 64 percent in summer and 54 percent in winter. Prevailing winds are southwesterly. Average windspeed is highest, 9 miles per hour, in March.

In winter every few years heavy snow covers the ground for a few days to a week. Every few years in late summer or autumn, a tropical storm moving inland from

the Atlantic Ocean causes extremely heavy rain for 1 to 3 days.

History

From Bicentennial List of Important Events and Movements in Guilford County.

Settlement of what is now Guilford County was begun by German Lutherans in the eastern part of the county in 1744. Quakers from Pennsylvania settled the western and southern parts of the county in 1750. Scotch-Irish Presbyterians purchased land between the Lutherans and Quakers and began settling in this area in 1753.

Guilford County as it now stands was created from lands in the remote parts of Rowan and Orange Counties by an act of Governor Tryon on April 1, 1771. It was named for Lord Francis North, first Earl of Guilford.

The county's most famous historical event occurred during the Revolutionary War in 1781 when General Nathanael Greene's forces fought British forces in the Battle of Guilford Courthouse. General Greene lost the battle, but the severe losses suffered by the British in this action influenced General Cornwallis' surrender at Yorktown a few months later.

The first steam powered cotton mill in North Carolina started operation in 1833, and the first train rolled into the county seat at Greensboro in 1856. A rail connection was completed to Danville, Virginia, in 1864.

The founders of the county considered education to be of prime importance. The Quakers opened New Garden Friends Boarding School in 1837. This became Guilford College in 1888. Greensboro College, High Point College, and Bennett College were built by Methodists who moved into the area. Charters were granted for two state supported secondary schools in 1891. These schools are now the University of North Carolina at Greensboro and Agricultural and Technical State University.

From the agricultural county established by the early settlers, Guilford County has grown into a giant in industry, commerce, transportation, and education.

Cultural Facilities

Culture was a part of the heritage of the early settlers of Guilford County. From the very beginning the pioneers exerted tremendous efforts in building churches and schools and the cultural facilities that go with these institutions.

The two universities and four colleges in Guilford County are Agricultural and Technical State University, University of North Carolina at Greensboro, High Point College, Greensboro College, Guilford College, and Bennett College. All have art, drama, and music departments. Oak Ridge Military Institute and Guilford Technical Institute are also in Guilford County.

At the University of North Carolina, the Weatherspoon Art Gallery has a permanent collection of modern art. The Theatre of University of North Carolina at Greensboro and the Pixie Playhouse present several programs a

year. Also, there are laboratory, experimental, and television productions open to the public. Other programs and exhibits are displayed periodically at most of the colleges and universities.

The United Arts Council was organized in 1959 to develop a well balanced cultural program in Guilford County. The Arts Center has courses in many arts and crafts.

Other organizations interested in the arts are Greensboro Artist League, Chamber of Commerce, Greensboro Chamber Music Society, Greensboro Oratorio Society, Greensboro Symphony, Eastern Music Festival, Greensboro Civic Ballet, the Lyric Theatre, the Little Theatre and Greensboro Writers.

The story of the founding and development of Guilford County is told at the Greensboro Historical Museum. There are more than one hundred exhibits. Also of historical interest are the restored Quaker Room at Guilford College, Guilford Courthouse National Military Park, and the historical museum at High Point.

Guilford County is part of the six-county North Central Piedmont Resource Conservation and Development Project, which includes 11 committees. The committee, designed to encourage community participation, includes representatives from all phases of the local citizenry.

Guilford County has five country clubs, four public swimming pools, and 15 neighborhood associations that operate pools for their members.

Municipal recreation facilities include 2,123 developed acres of parks. Hagan Stone park, which was developed by the Greensboro City Recreation Department, is 1 mile south of Greensboro and covers more than 40 acres. City Lake Park in High Point covers 1,500 acres. Sixteen community centers are also operated by the City of Greensboro and the City of High Point.

The spectator can watch professional hockey, college basketball, wrestling, and many other activities at the Greensboro Auditorium-Coliseum. One of the major attractions in Greensboro is the Greater Greensboro Open Golf Tournament.

There are two public libraries, a natural science museum, two wildlife clubs, more than 200 civic clubs, 34 Extension Homemakers Clubs, 33 4-H Clubs, 97 elementary and secondary schools, and 355 churches in Guilford County.

Industry and Transportation

Guilford County is the leading manufacturing county in North Carolina, both in number of manufacturing employees and number of manufacturing plants. The county has approximately 700 manufacturing plants. The plants employ 58,900 workers.

Guilford County has been one of the leaders in North Carolina in manufacturing gains during the last 5 years. Total manufacturing employment in the county increased by 12,665 workers between May 1965 and May 1970.

Greensboro has 35,985 workers in manufacturing enterprises. The 5-year increase was more than 11,000. With 13,900 workers, textile plants are the largest single source of employment. Other major types of industry, in order of total employment, are machinery, apparel, tobacco, food, newspaper printing and publishing, and metal working. Machinery manufacturing has had the greatest growth in employment, both in total number and in percentage of increase. In this field, employment in 1970 was 6,960, an increase of 259 percent since 1965.

High Point has 22,900 manufacturing workers. The 5-year increase was 1,600. Furniture manufacturing is the largest industry, with 8,100 employees, closely followed by textiles, with 7,000 employees. Other major types of industry are apparel, printing and publishing, and transportation equipment. Many of the nation's leading furniture and hosiery manufacturers have their headquarters in High Point.

Guilford County is also a major transportation center, with nearly 5,000 persons employed in various transportation enterprises. Rail service is provided by several lines. The airport serving both Greensboro and High Point has scheduled passenger and freight service. More than 100 trucking and warehousing firms have installations in the county and employ more than 3,000 workers.

Water Supply

Guilford County has an abundant supply of water from both surface streams and ground water (3).

There are three types of wells in Guilford County: dug, bored, and drilled.

Dug wells range from a few feet to nearly 100 feet in depth. The inside diameter usually is 24 to 30 inches. Dug wells have the advantage of larger storage capacity than other types, but digging below the water table and through bedrock is difficult. Contamination is another problem associated with the shallower dug wells.

Bored wells are very similar to dug wells, but the earth is removed by a large machine operated auger. Bored wells usually range from 30 to 40 feet in depth and from 18 to 24 inches in diameter. Because wells can easily be bored for a considerable depth below the water table, this type of well is not so apt to go dry during periods of drought. Bored wells, however, cannot be used where the water table is below the zone of completely decayed and disintegrated rock.

Drilled wells are safer and more reliable than dug and bored wells. Because they are tightly cased and water is obtained from crevices in the bedrock, the danger of contamination is much less. Because the well generally extends far below the fluctuating water table, drilled wells rarely go dry.

A drilled well, 3 inches or more in diameter, gives the greatest yield in the greenstone schist. Greenstone schist has an average yield of 28 gallons per minute and 0.17 gallon per minute per foot of well. Wells in sheared granite rank second, with an average yield of 14 gallons

per foot of well. Next in order of greatest average yield are gneiss sericite schist, porphyritic granite, and diorite.

Topographic location is important when locating a well. The highest yields are from wells in valleys, the average being 28 gallons per minute from a drilled well 3 inches or more in diameter. The next greatest average yield is from wells in draws; they yield 27 gallons per minute. Next in order are flats, slopes, and hills.

Yield per minute generally increases with depth, but yield per foot of well depth generally decreases as depth increases.

Cities and industries in Guilford County cannot rely on wells for their water supply. Greensboro obtains its water from Lake Higgins, which has a capacity of 800,000,000 gallons; Lake Brandt, which has a capacity of 2,200,000,000 gallons; and Lake Townsend, which has a capacity of 6,500,000,000 gallons.

The City of High Point obtains its water from City Lake, which has a capacity of 1,250,000,000 gallons, and New City Lake, which has a capacity of 3,000,000,000 gallons. Jamestown obtains its water supply from Oakdale Mill Pond, capacity unknown. Other municipalities in Guilford County obtain their water supply from wells.

The approximately 2,500 artificial lakes are used chiefly for irrigation, livestock water supply, recreation, fire protection, and flood prevention.

Land Use

According to the 1971 North Carolina Conservation Needs Inventory, the land use in Guilford County is approximately as follows: cropland, 101,666 acres; pasture, 30,235 acres; urban and built-up areas, 70,744 acres; forest, 192,300 acres; and other land, 20,995 acres.

Guilford Battleground National Park is maintained by the U.S. Park Service. The Greensboro-High Point-Winston Salem Regional Airport is maintained by the Greensboro-High Point Airport Authority. The City of High Point maintains two lakes for water supply and recreation and several other recreational parks. The City of Greensboro maintains a park and zoo and three lakes, which are used for water supply and recreation.

How This Survey Was Made

Soil scientists made this survey to learn what kinds of soil are in the survey area, where they are located, and how they can be used. The soil scientists went into the area knowing they likely would locate many soils they already knew something about and perhaps identify some they had never seen before. They observed the steepness, length, and shape of slopes, the size of streams and the general pattern of drainage, the kinds of native plants or crops, the kinds of rock, and many facts about the soils. They dug many holes to expose soil profiles. A profile is the sequence of natural layers, or horizons, in a soil; it extends from the surface down into the parent material that has been changed very little by leaching or by the action of plant roots.

This association makes up 29 percent of the county. It is about 60 percent Cecil soils and 30 percent Madison soils. The remaining 10 percent is Appling, Enon, and Mecklenburg soils, and Urban land on uplands and Chewacla, Congaree, and Wehadkee soils along small streams and drainageways.

Cecil soils are well drained. The surface layer is brown sandy loam about 6 inches thick. The subsoil is 46 inches thick; the upper part is yellowish red sandy clay loam, the middle part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 85 inches, is mottled red and yellow loam.

Madison soils are well drained. The surface layer is reddish brown sandy loam about 5 inches thick. The subsoil is 29 inches thick; the upper part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 80 inches, is mottled reddish yellow sandy clay loam in the upper part and mottled reddish yellow sandy loam in the lower part.

About one-half of this association is cultivated or is in pasture. The rest is in forest or in urban and industrial uses. Slope and a moderate shrink-swell potential are the main limitations in the use and management of these soils for farm and nonfarm uses.

This association has moderate potential for crops, moderate potential for most urban uses, and moderately high potential for woodland.

2. Madison-Cecil Association

Strongly sloping to steep, well drained soils that have a sandy clay loam, clay loam, and clay subsoil; on uplands

This association is on narrow ridges and side slopes. It is dissected by long, narrow drainageways.

This association makes up 3 percent of the county. It is about 65 percent Madison soils and 30 percent Cecil soils. The remaining 5 percent is Enon and Wilkes soils on the uplands and Congaree, Chewacla, and Wehadkee soils on flood plains of small streams.

The strongly sloping to steep Madison soils are well drained. The surface layer is reddish brown sandy loam about 5 inches thick. The subsoil is 29 inches thick; the upper part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 80 inches, is mottled reddish yellow sandy clay loam in the upper part and mottled reddish yellow sandy loam in the lower part.

The strongly sloping Cecil soils are well drained. The surface layer is brown sandy loam about 6 inches thick. The subsoil is 46 inches thick; the upper part is yellowish red sandy clay loam, the middle part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 85 inches, is mottled red and yellow loam.

Most of the acreage of this association is forested or is in urban uses. The rest is cultivated or in pasture. Slope is the main limitation in the use and management of these soils.

This association has low potential for crops, low potential for most urban uses, and moderately high potential for woodland.

3. Enon-Mecklenburg Association

Gently sloping and sloping, well drained soils that have a sandy clay loam, clay, and clay loam subsoil; on uplands

This association is on broad, smooth interstream divides and side slopes. It is dissected by long, narrow drainageways.

This association makes up 49 percent of the county. It is 45 percent Enon soils and 20 percent Mecklenburg soils. The remaining 35 percent is Appling, Cecil, Coronaca, Helena, Iredell, Madison, and Wilkes soils on uplands and Chewacla, Congaree, and Wehadkee soils along streams and drainageways.

Enon soils are well drained. The surface layer is dark grayish brown fine sandy loam about 3 inches thick. The subsurface layer is yellowish brown fine sandy loam 5 inches thick. The subsoil is 25 inches thick; the upper part is light olive brown sandy clay loam, and the lower part is yellowish brown clay. The underlying material, to a depth of 75 inches, is mottled brownish yellow, black, and dark greenish gray loam.

Mecklenburg soils are well drained. The surface layer is reddish brown sandy clay loam about 7 inches thick. The subsoil is 31 inches thick; the upper part is mottled yellowish red and red clay, and the lower part is yellowish red clay loam. The underlying material, to a depth of 70 inches, is mottled red and brownish yellow silty clay loam.

About one-half of this association is cultivated or is in pasture. The rest is in forest or in urban uses. Slope, a moderate to high shrink-swell potential, and slow permeability are the main limitations in the use and management of these soils.

This association has moderate potential for crops, low potential for most urban uses, and moderate potential for woodland.

4. Wilkes-Enon Association

Sloping to steep, well drained soils that have a sandy loam, clay loam, sandy clay loam, or clay subsoil; on uplands

This association is on narrow ridges and long slopes. It is dissected by long, narrow drainageways.

This association makes up 4 percent of the county. It is 60 percent Wilkes soils and 35 percent Enon soils. The remaining 5 percent is Madison and Mecklenburg soils on the uplands and Congaree, Chewacla, and Wehadkee soils on flood plains.

The sloping to steep Wilkes soils are well drained. The surface layer is dark brown sandy loam about 7 inches thick. The subsoil is 11 inches thick; the upper part is mottled brownish yellow sandy loam, and the lower part is yellowish brown clay loam. The underlying material, to a depth of 52 inches, is yellowish brown clay loam in the

Borrow pits are areas where the soil has been excavated to a depth of more than 20 feet. The more recently excavated areas are bare and are subject to accelerated erosion. The older areas are eroded, but many of them have stabilized under pine and other vegetation. Some of the areas are smooth, and others have a highly irregular surface.

Quarries are areas where the regolith has been removed and the underlying rock has been quarried for use mainly as construction aggregate. These areas are open excavations as deep as 100 feet or more. Water fills the deeper cavities all year in most of the abandoned quarries. These cavities are almost entirely devoid of vegetation. Some pine and cedar trees are around the top of the quarries, where the soil is exposed.

In sanitary landfill areas the original soil has been removed and solid waste material placed in alternating layers with the original soils and other soil materials. A few areas have been used as dumps for industrial and other wastes. Soil material was mixed in some of these dumps in low areas, and the land was then leveled. Some of the older sanitary landfills that are closed have stands of Virginia pine and shortleaf pine.

These areas are so diverse that onsite investigation of each unit should be made before proceeding with any land use practice.

Ur—Urban land. This land type consists of areas where more than 75 percent of the surface is covered with streets, buildings of all types, parking lots, railroad yards, and airports. The soils between these facilities are used for parks, lawns, playgrounds, cemeteries, and drainageways. The natural soils have been greatly altered by cutting, filling, grading, and shaping during the processes of urbanization. The original landscape, or topography, and the drainage pattern has been changed.

Most of the acreage of this land type is in the business districts of Greensboro and High Point or around the perimeter of the cities. Isolated areas are as small as 5 acres. Slopes are 2 to 10 percent.

The major concern is the excessive runoff from roofs, roads, and parking lots, which increases the flooding hazard in lower lying areas. There is a very severe hazard of waterway and reservoir siltation from areas that are graded and not immediately stabilized.

Determination of use and treatment requires onsite investigation.

VaB—Vance sandy loam, 2 to 6 percent slopes. This well drained soil is on narrow ridges on uplands. The mapped areas are 3 to 15 acres or more in size.

Typically, the surface layer is brown sandy loam about 6 inches thick. The subsoil is 34 inches thick; the upper part is mottled strong brown clay, and the lower part is mottled brownish yellow clay loam. The underlying material, to a depth of 72 inches, is mottled brownish yellow, white, and red clay loam.

Included with this soil in mapping are a few small areas of soils that have a clay loam surface layer. Also included are small areas of Appling, Enon, and Helena soils.

The organic-matter content of the surface layer is low. Permeability is slow, available water capacity is low, and the shrink-swell potential is moderate. Reaction of the subsoil is strongly acid or very strongly acid. Depth to bedrock is more than 60 inches. The seasonal high water table is at a depth of more than 6 feet.

Most areas of this soil are used for cultivated crops or pasture. The rest are forested. Slope, runoff, erosion, and slow permeability are the main limitations in the use and management of this soil.

This soil has moderately high potential for tobacco, corn, milo, and small grain. It has high potential for horticultural crops, such as tomatoes, sweet corn, green beans, and peas. Minimum tillage and crop residue management help to control runoff and erosion. Conservation practices such as maintaining sod in drainageways, constructing terraces and diversions, stripcropping, establishing field borders, contour farming, and using crop rotations that include close-growing crops also help to conserve soil and water. The potential for hay and pasture plants such as ladino clover, red clover, fescue, and sericea lespedeza. Proper pasture management helps to ensure adequate protective cover, which reduces runoff and controls erosion.

The potential for urban uses, such as houses and streets, is low because of slow permeability and low strength. Potential for recreation areas is moderate because of slow permeability.

This soil has moderately high potential for broadleaf and needleleaf trees. The dominant trees are white oak, black oak, post oak, northern red oak, southern red oak, blackjack oak, cedar, maple, hickory, loblolly pine, shortleaf pine, and Virginia pine. The main understory species are dogwood, holly, and sassafras. There are no major limitations in the use and management of this soil in woodland. Capability unit IIIe-3; woodland group 3c.

VaC—Vance sandy loam, 6 to 10 percent slopes. This well drained soil is on long, narrow side slopes. The mapped areas are 3 to 15 acres in size.

Typically, the surface layer is brown sandy loam about 6 inches thick. The subsoil is 34 inches thick; the upper part is mottled strong brown clay, and the lower part is mottled brownish yellow clay loam. The underlying material, to a depth of 72 inches, is mottled brownish yellow, white, and red clay loam.

Included with this soil in mapping are a few small areas of soils that have a clay loam surface layer and a few small areas of soils that have gravel or small cobbles in the surface layer. Also included are a few small areas of Appling, Cecil, Enon, and Helena soils.

The organic-matter content of the surface layer is low. Permeability is slow, available water capacity is low, and the shrink-swell potential is moderate. Reaction of the soil is strongly acid or very strongly acid. Depth to bedrock is more than 60 inches. The seasonal high water table is at a depth of more than 6 feet.

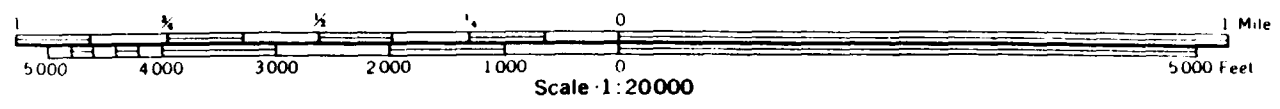
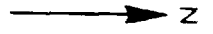
Most areas of this soil are forested. The rest are used for cultivated crops, for pasture, or for urban and industrial

TABLE 1.--TEMPERATURE AND PRECIPITATION DATA

[Recorded in the period 1951-74 at Greensboro, N.C.]

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average	2 years in 10 will have--		Average number of growing degree days ¹	Average	2 years in 10 will have--		Average number of days with 0.10 inch or more	Average snowfall
				Maximum temperature higher than--	Minimum temperature lower than--			Less than--	More than--		
	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>Units</u>	<u>In</u>	<u>In</u>	<u>In</u>		<u>In</u>
January----	48.3	27.8	38.1	73	5	12	3.25	2.02	4.35	7	4.2
February----	51.1	29.3	40.2	72	8	11	3.63	2.52	4.65	8	2.2
March-----	59.1	36.1	47.6	83	17	96	3.76	2.47	4.92	8	2.3
April-----	70.5	45.8	58.2	89	28	257	3.31	2.34	4.19	7	0
May-----	78.1	54.9	66.5	93	35	512	3.27	1.62	4.61	7	0
June-----	84.5	62.9	73.7	98	48	711	4.21	2.21	5.83	7	0
July-----	87.4	66.8	77.2	98	54	843	4.00	2.25	5.43	8	0
August-----	85.9	66.1	76.0	96	52	806	4.36	2.41	5.94	8	0
September--	80.5	58.9	69.7	94	41	591	3.11	1.08	4.72	5	0
October----	70.6	46.9	58.8	88	27	280	3.06	.96	4.73	5	0
November---	59.8	36.8	48.3	80	18	43	2.53	1.24	3.57	6	.3
December---	50.4	30.1	40.3	73	7	28	3.50	1.79	4.88	6	1.3
Year-----	68.9	46.9	57.9	99	4	4,190	41.99	37.80	46.03	82	10.3

¹A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (50 degrees F).



CeB2 VaB

CeB2



NUS CORPORATION AND SUBSID.

ECON NOTE

CONTROL NO. F4-8803-58

DATE: May 26, 1988

TIME: 11:15 a.m.

DISTRIBUTION:

Glass, E. H. County Landfill
Cone Mills Corp., White Oak Plant

BETWEEN: David Moorefield

OF: Water Administration,
Guilford Co. Water & Sewer Dept.,
Greensboro, N. C.

PHONE: (919) 373-2055

AND: Joan Dupont, NUS Corporation

Joan Dupont 5/26/88

DISCUSSION:

Mr. Moorefield did not think that North Buffalo Creek east of the city of Greensboro is used recreationally; the creek is usually small, except after rainfall. Although some parks are located along North Buffalo Creek, they are mainly located within the city; he was not aware of any parks located on the creek northeast of the city. Likewise, he felt that there are probably no parks along Buffalo Creek. Mr. Moorefield was not aware of any drinking water intakes east of Greensboro on North Buffalo Creek or Buffalo Creek. Buffalo Creek water enters the Haw River (after passing through Reedy Fork - JJD); there may be intakes on the Haw River near Burlington in Alamance County.

OVERSIZED

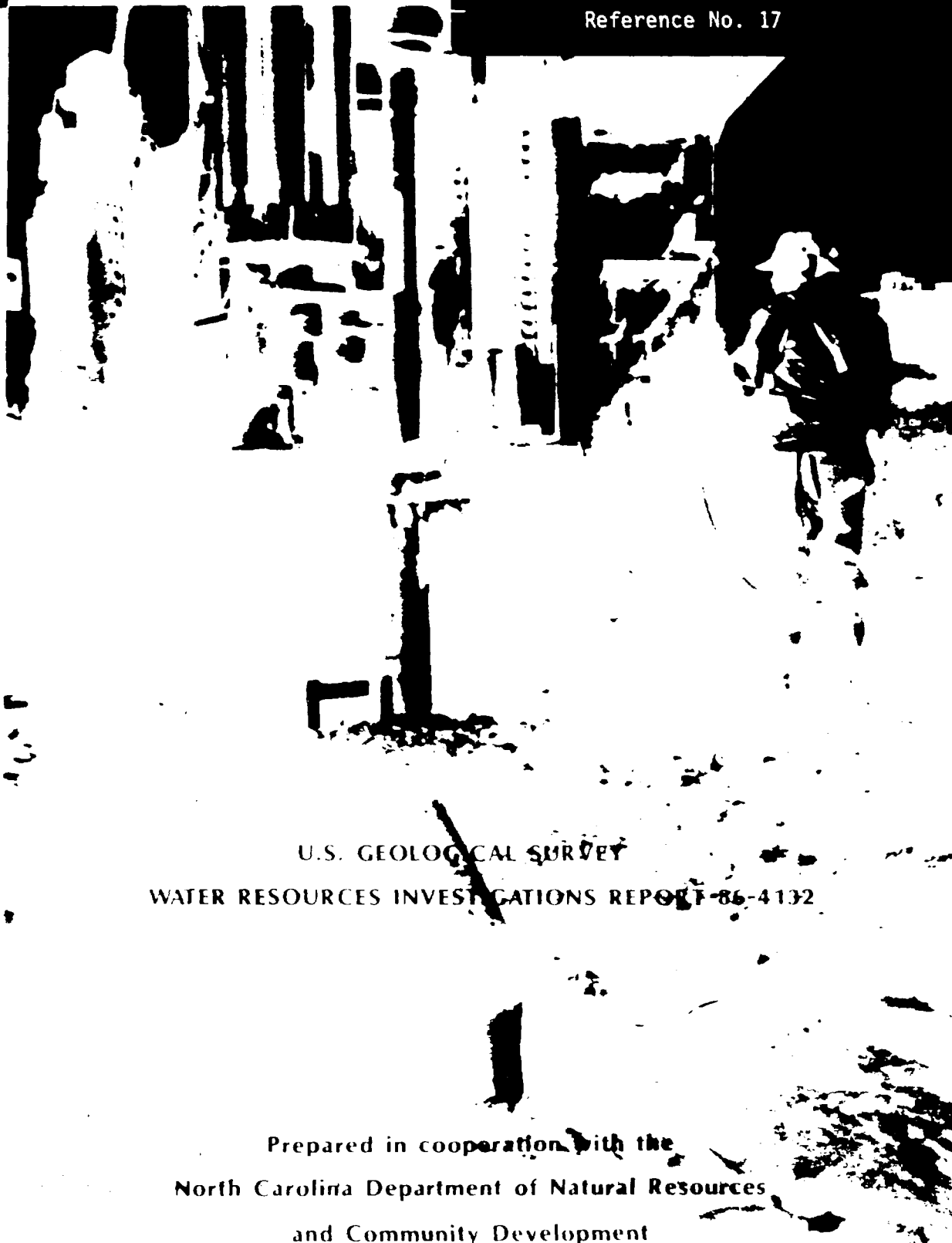
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MAP



STATISTICAL ANALYSIS RELATING WELL YIELD TO CONSTRUCTION PRACTICES AND SITING OF WELLS IN THE PIEDMONT AND BLUE RIDGE PROVINCES OF NORTH CAROLINA

Reference No. 17



U.S. GEOLOGICAL SURVEY
WATER RESOURCES INVESTIGATIONS REPORT 86-4132

Prepared in cooperation with the
North Carolina Department of Natural Resources
and Community Development

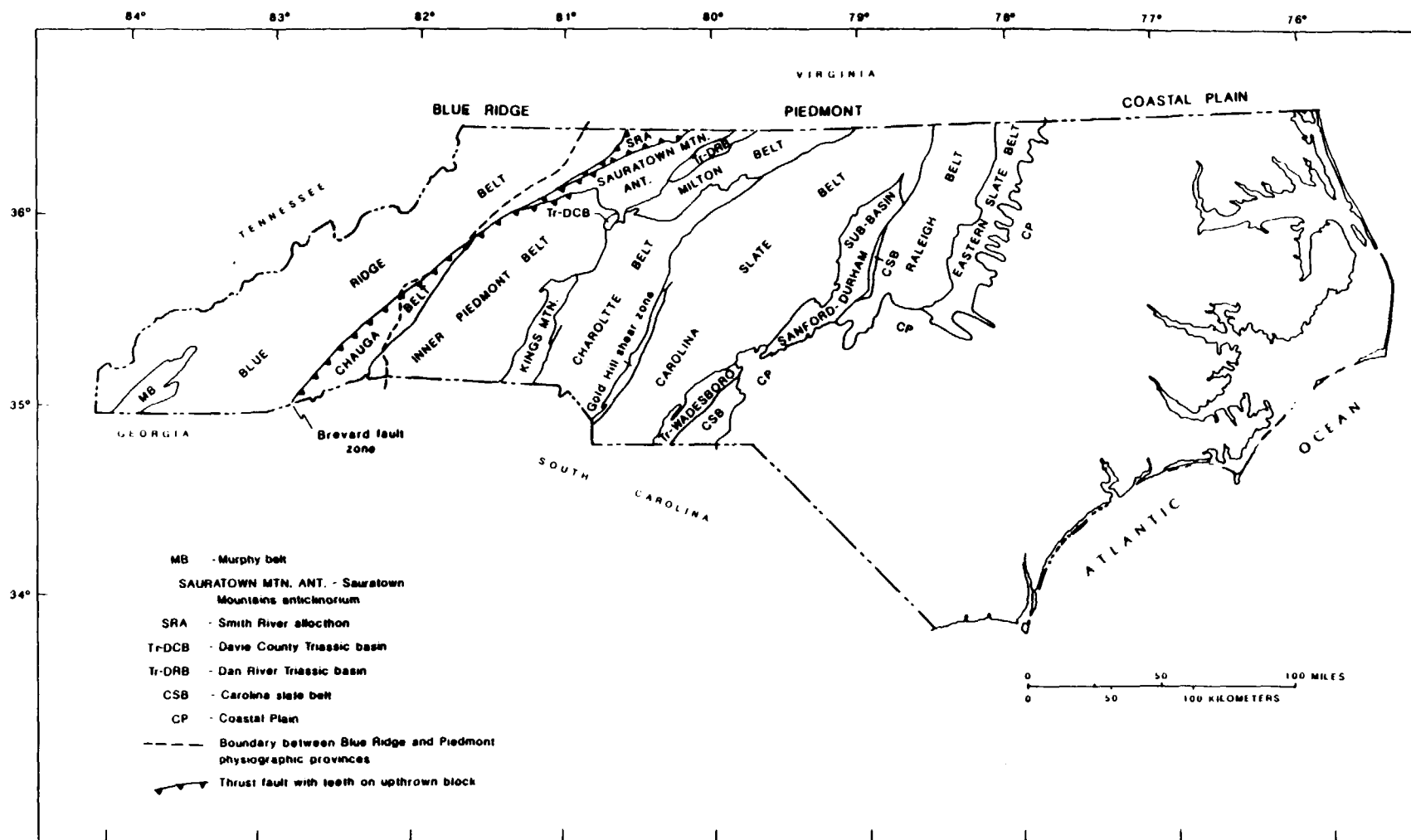


Figure 6.--Geologic belts, terranes, and some major structural features within the Piedmont and Blue Ridge provinces of North Carolina.

**GROUND-WATER SUPPLY POTENTIAL
AND
PROCEDURES FOR WELL-SITE SELECTION
UPPER CAPE FEAR RIVER BASIN**

CAPE FEAR RIVER BASIN STUDY

Sponsored by

**North Carolina Department of Natural
Resources and Community Development
and
U. S. Water Resources Council**

**1155 Archdale Building
P. O. Box 27687
Raleigh, NC 27611**

(919) 733-4064

October, 1983

DESCRIPTION OF THE STUDY AREA

The study area is that part of the upper Cape Fear River basin that includes the Haw River basin, upstream from B. Everett Jordan Lake (fig. 1), and the Deep River basin, upstream from U.S. Highway 64. The Cape Fear River is formed by the juncture of the Haw and Deep Rivers about 3 miles downstream from B. Everett Jordan Lake. The study area includes 1,278 mi² (square miles) of the Haw and 472 mi² of the Deep River basins and covers parts of eight counties, including: Alamance, Caswell, Chatham, Forsyth, Guilford, Orange, Randolph, and Rockingham. The major population centers in the study area are Greensboro, High Point, Burlington-Graham, and Asheboro.

Geography

The upper Cape Fear River basin lies within the Piedmont province (Fenneman, 1938) as shown in figure 1. The topography of the region consists of low, rounded hills and long, rolling, northeast-southwest trending ridges. The upper surfaces of many ridges and interstream divides are relatively flat, thought to be remnants of the Piedmont peneplain, an ancient erosional surface of low relief. More recent erosion and downcutting by streams has dissected the Piedmont peneplain, creating a local topographic relief of 100 to 200 feet between ridge tops and stream bottoms. Summit altitudes of ridges along the northwestern margin of the basin, northwest of Troublesome Creek, are about 800 to 900 feet above sea level but decrease steadily to the southeast until they are no more than 500 to 600 feet at the edge of the study area near Pittsboro. The altitude of the Haw River at U.S. Highway 64 is less than 300 feet above sea level.

Geology

The geologic framework of the Piedmont consists of folded and fractured igneous and metamorphic bedrock, such as granite, gneiss, and schist, overlain nearly everywhere by unconsolidated material

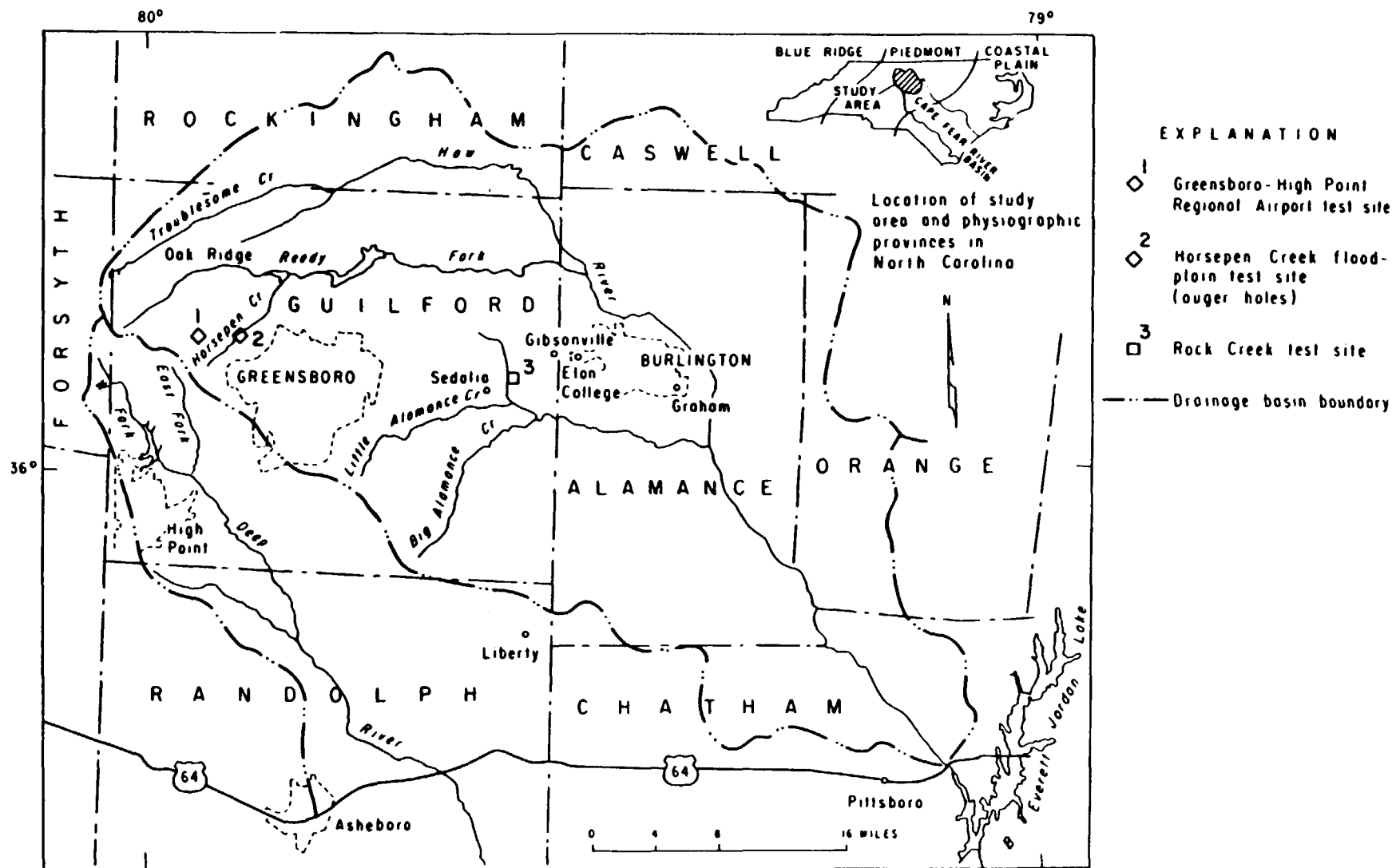


Figure 1.--Regional setting of the upper Cape Fear River basin study area in the Piedmont physiographic province of North Carolina.

termed regolith. The characteristics of bedrock and regolith and the hydrologic relation between them determines the water-supply potential of the ground-water system in the Piedmont province.

The major bedrock units (fig. 2) in the upper Cape Fear River basin are: (1) mafic volcanics, (2) sheared granite, (3) porphyritic granite, (4) felsic volcanics, (5) mica gneiss, (6) diorite, (7) mica schist, and (8) argillite. Throughout the study area the major rock units are intruded by numerous basaltic dikes that in some areas make up nearly half the volume of the total rock. The dikes can be subdivided into two groups: an older set that has been metamorphosed and a younger set that has not been metamorphosed.

Bedrock may be exposed at land surface or covered by unconsolidated material to depths of more than a hundred feet. Collectively this unconsolidated material, which is composed of saprolite, alluvium, and soil, is referred to as regolith. Saprolite is clay-rich, residual material derived from in place weathering of the bedrock. In many valleys the saprolite has been removed by erosion, and bedrock is exposed or thinly covered by alluvial deposits. Soil is nearly everywhere present as a thin mantle on top of both the saprolite and alluvial deposits.

The yield of bedrock wells is influenced by many factors, but the prime factor is the number and (or) size of rock fractures and other openings the well bore intersects. The differences in rock composition and texture shown in figure 2 and subsequent tectonic history of the bedrock units explain the relative abundance of fractures and openings in the different units and the ability of these to remain open pathways through which water can move.

For a given set of tectonic conditions, certain rocks respond by fracturing (brittle deformation), whereas other rocks deform by flowing or gliding of mineral grains (plastic deformation). Field evidence supports this thesis. Outcrops of the mafic volcanics unit which, apparently, is fairly brittle, commonly exhibit numerous closely spaced fractures. Joint spacings as close as 1 inch were

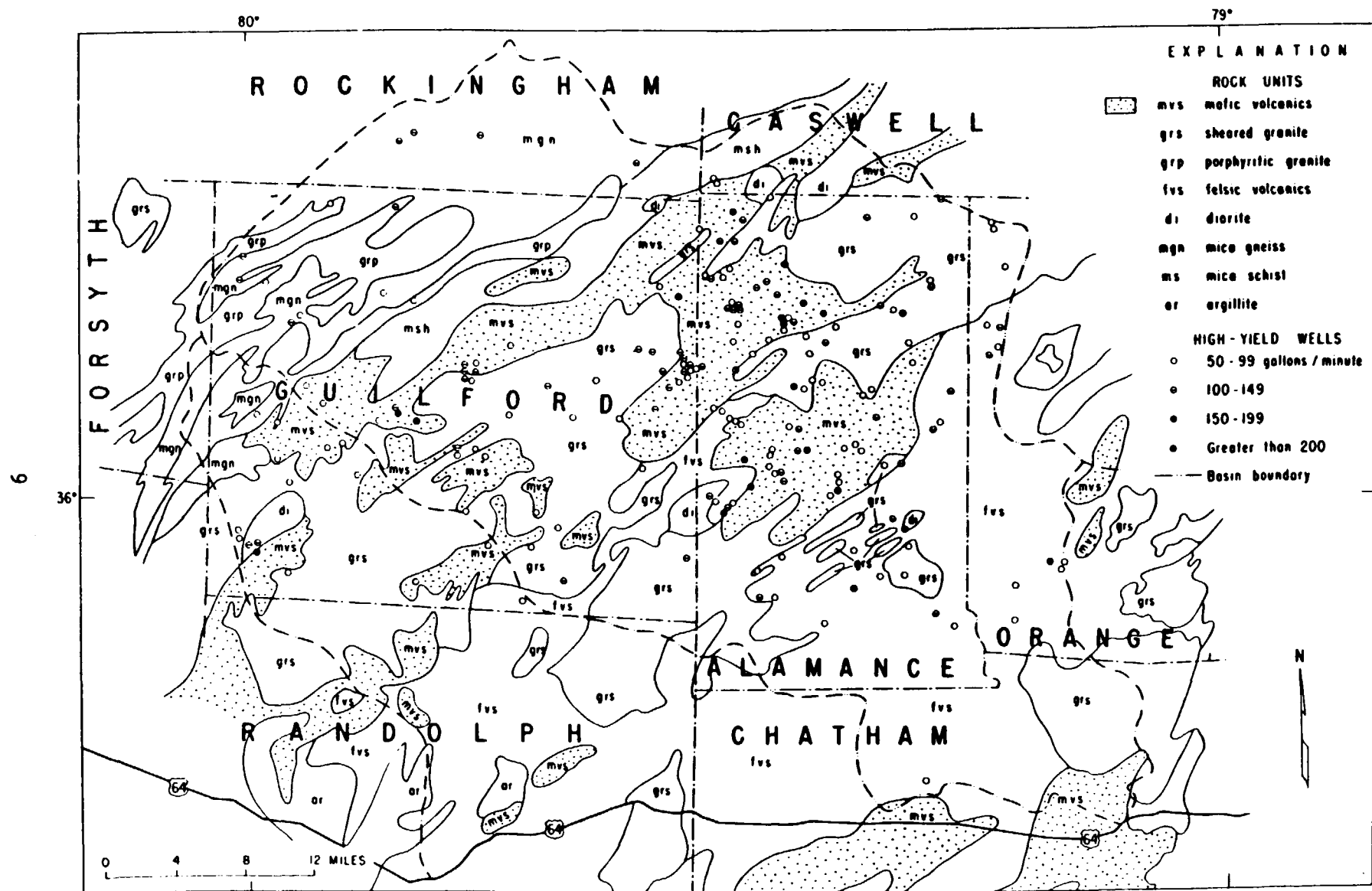


Figure 2.--Geologic map of the upper Cape Fear River basin showing locations and yields of high-yield wells as of 1982 (geology modified from Stuckey, 1958; Mundorff, 1948).

WELL-SITE SELECTION CRITERIA

Due to the complexity of the ground-water system in the Piedmont, sound hydrogeologic criteria are of utmost importance in selecting sites for high-yield wells. The following steps are suggested; first, determine possible correlations between the highest yielding wells and various geologic and geomorphic features; next, determine the location of zones or areas of abundant fractures which will transmit water; and finally, determine local areas of thick regolith, and therefore the greatest potential for ground-water storage.

Geologic Units

Information on geologic units and other geologic parameters was compiled from records for more than 300 wells producing more than 50 gallons per minute (referred to as high-yield wells). The locations of 195 of these could be accurately determined. Using data from the 195 wells, statistical analyses were conducted to determine possible relations between well yield and geologic unit, topographic position, distance from streams, and regolith thickness. A significant relation was found between well yield and geologic units; clear-cut relations could not be demonstrated for the other factors. This result was not unexpected, for differences in the relative abundance of fractures between rock units and the ability of these fractures to remain open pathways through which water can move are characteristic of differences in rock composition, texture, and tectonic history. The eight major geologic units and their areal distribution within the upper Cape Fear River basin are illustrated in figure 2. Locations of the 195 high-yield wells are also shown.

Table 3 lists, for selected yield intervals, the percentage of high-yield wells in each geologic unit. The mafic volcanics (mvs) unit has a far greater percentage of high-yield wells than does any other geologic unit. The percentage of wells in the mafic volcanics unit is even greater at the higher yield intervals than at the lower yield intervals. Ninety-one percent of all wells having yields of

Table 3.--Statistical summary of high-yield wells by geologic units in the upper Cape Fear River basin
 [mvs, mafic volcanics; grs, sheared granite; grp, porphyritic granite; fvs, felsic volcanics; mgn, chiefly mica gneiss, also includes wide variety of other gneisses and schists; di, diorite; msh, chiefly mica schist, includes mica gneiss and a wide variety of other gneisses and schists; ar, argillite]

Yield interval (gal/min)	Number of wells	Percentage of wells in indicated geologic unit by yield interval							
		mvs	grs	grp	fvs	mgn	di	msh	ar
50- 99	110	45	26	5	20	4	0	0	0
100-149	62	44	27	2	13	10	5	0	0
150-199	12	50	8	0	33	0	8	0	0
200 or more	11	91	9	0	0	0	0	0	0
All wells	195	48	25	3	17	5	2	0	0
	Total	Area and percentage of total area for each geologic unit							
Land area in square miles	1752	351	488	87	536	185	28	69	8
Percentage of total land area	100.0	20.0	27.8	5.0	30.6	10.6	1.6	3.9	0.5

200 gal/min or more are in the mafic volcanics unit. A similar correlation between well yield and rock type was found by Mundorff (1948) in his study of the Greensboro area. The mafic volcanics unit underlies 351 square miles, or 20 percent, of the study area and represents a significant area for potential ground-water development.

Because the geologic units do not underlie equivalent land area in the basin, it is perhaps more informative to compare the number of high-yield wells per square mile for each geologic unit. Table 3 also lists the land area underlain by each unit, and figure 8 shows graphically the number of high-yield wells per square mile for each geologic unit. The area underlain by the mafic volcanics unit is the most favorable for high-yield wells, whereas the areas underlain by the mica schist and argillite units are the least favorable. The five other major rock units (sheared granite, porphyritic granite, mica-feldspar gneiss, felsic volcanics, and diorite) are about equally favorable for obtaining high-yield wells, but about one-fifth to one-half as favorable as the mafic volcanics.

The area underlain by the sheared granite (fig. 2) is more favorable for high-yield wells than the area underlain by the porphyritic granite as shown by the data in table 3 and figure 8. Well inventories compiled from Mundorff's (1948) records indicate wells in the sheared granite have average yields 64 percent higher (16.7 gal/min versus 10.2 gal/min) than wells in the more massive porphyritic granite. Thus, by subdividing the granitic rocks on the basis of texture, we find that the second most likely area in which to obtain high-yield wells is that underlain by the sheared granite. Although the diorite has a slightly higher number of wells per square mile than the granite (fig. 8), the diorite, underlying but 1.6 percent of the total study area, will be only of local importance for ground-water supplies.

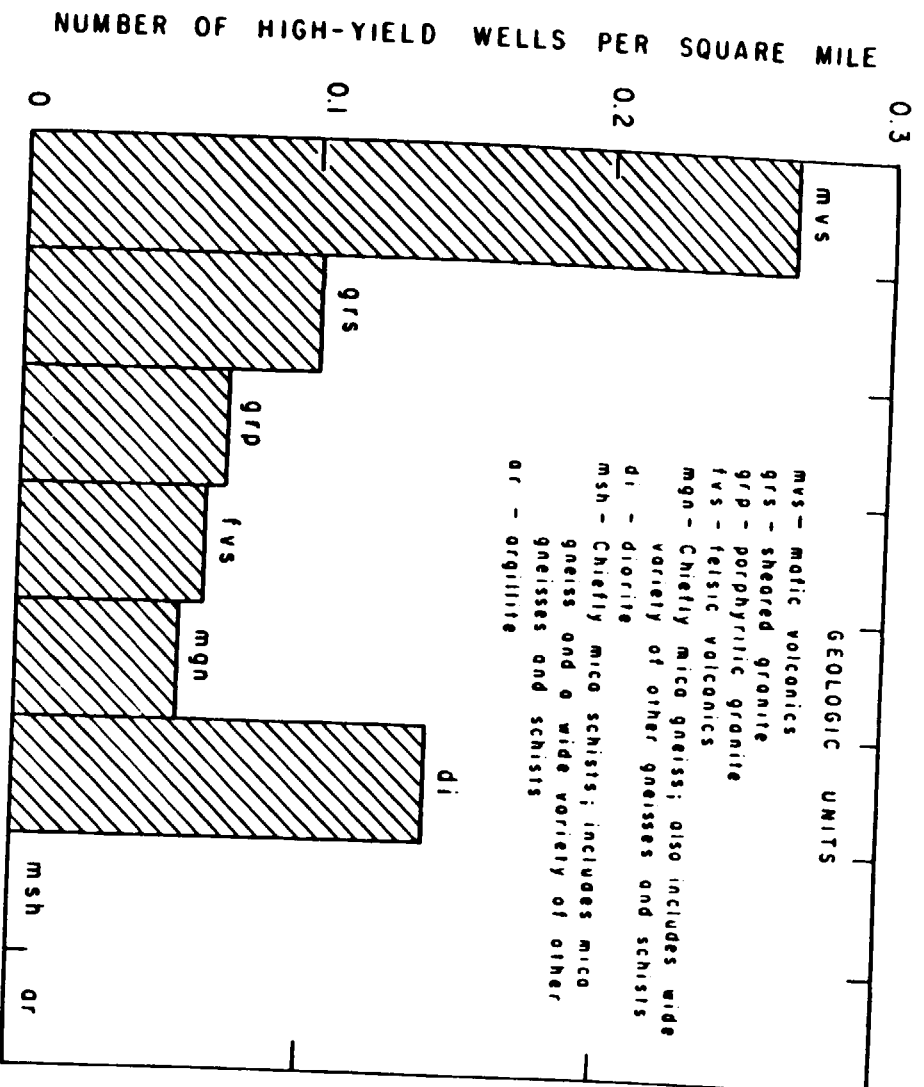


Figure 8.--Number of high-yield wells per square mile by geologic unit in the upper Cape Fear River basin.

yielding, which supports the observation that hills are underlain by poorly fractured rocks. The data in table 4, compiled from well records published by Mundorff (1948), are considered more representative of the areal distribution and range of yields of all wells drilled in the region than the inventory of high-yield wells made for this study.

Regolith Thickness

In the broader valleys much of the regolith consists of alluvium that is deposited and reworked by the meandering of the streams. Sediments on valley floors generally are thin and commonly are less than 10 feet thick; many stream channels have cut through the regolith and run on bedrock. There are very few broad stream valleys in the Piedmont where large amounts of sediment are accumulating, and the few exceptions encompass small areas. As part of the current study, three holes were augered in the broad flood plain of Horsepen Creek (site 2, figs. 1 and 12) about 2.0 miles northeast of the Greensboro-High Point Regional Airport. Seismic data suggested that this part of the flood plain is underlain by thick alluvial sediment; however, the auger reached rock at depths of 15, 16, and 28 feet. Most of the flood plain sediment consisted of silt and clay, often with abundant organic matter. No beds of sand or gravel were found. The test wells drilled in the flood plain of Rock Creek west of Gibsonville (site 3, fig. 1) penetrated 17 feet of coarse sand, gravel, and cobbles resting on highly sheared granite (see fig. 11). Mundorff (1950) reported 21 feet of sand, silt, and clay in a test well in the flood plain of South Buffalo Creek within the city of Greensboro. None of the flood-plain sediments drilled so far have been very thick.

Smaller tributaries usually have narrower valleys that contain little alluvium. Bedrock exposures are often found in the lower reaches of the tributary channels, but as one goes headward the bedrock eventually disappears beneath the soil and saprolite which has not been removed by erosion. In considering the function of the

soil and saprolite as a reservoir and the desirability of having as large a reservoir as possible from which to draw water, the smaller drainages underlain by thick regolith seem to be better sites than the larger, broader stream bottoms which may only contain a thin veneer of alluvium on top of bedrock.

Using average casing depth of wells as an indication of regolith thickness (table 1), one might assume that the upland flats have the largest, thickest regolith reservoir and therefore represent the best location for a well site. However, under the influence of gravity ground water flows away from the hilltops and toward lower lying discharge areas along streams and lakes. Consequently wells in the lower part of a drainage area are able to intercept water flowing toward them and, in effect, derive water from a larger area because of the natural gradient toward the well. Wells on hilltops, on the other hand, must induce flow toward the well by pumping.

The Ideal Well Site

An ideal site would be located in the geologic unit having the greatest probability of high yields, have thick regolith, a high water table, be underlain by highly-fractured bedrock, and have a large contributing drainage area. High-yield geologic units of the area are known (fig. 8); regolith thickness can be estimated from existing well data (table 1); and fracture locations can be inferred from types of stream drainage patterns discussed earlier.

Sites having the greatest possible saturated thickness of regolith must also be identified. The porosity and specific yield of the regolith decrease with depth (fig. 5). Consequently, sites with a large saturated thickness of regolith, and a high water table, will have the greater amount of available water in storage. In addition, the higher the water table, the greater the available drawdown to wells (in comparison to a well of similar depth in an area with a low water table). In the upper Cape Fear River basin the regolith is generally thickest in the interstream areas and thinnest in the flood plains of perennial streams. On the other hand, the depth to

National Water Summary 1984

Hydrologic Events
Selected Water-Quality Trends
and Ground-Water Resources

United States Geological Survey
Water-Supply Paper 2275

NORTH CAROLINA

Ground-Water Resources

Ground water is a vital natural resource in North Carolina. Ground water supplies more than 3.2 million people, or about 55 percent of the State's total population. Its economic significance is substantial, particularly in the Coastal Plain province (fig. 1), where high-yielding aquifers supply most municipalities, industries, rural areas, and livestock. In the Piedmont and Blue Ridge provinces, ground water serves slightly more than one-half of the 4 million residents (Mann, 1978). Besides withdrawals for public supply, the largest ground-water withdrawals in the State are for mining and quarrying operations and process water for a number of textile and chemical industries. Withdrawals for irrigation represent a small, but increasing, percentage of total ground-water use, particularly in the Coastal Plain. Ground-water withdrawals for various uses and other related statistics are given in table 1.

GENERAL SETTING

North Carolina is located in three physiographic provinces—the Coastal Plain, Piedmont, and Blue Ridge (fig. 1). The Coastal Plain aquifers generally are unconsolidated and consist of beds of sand, gravel, and limestone separated by clay or clayey layers and lenses. These strata dip and thicken southeastward and together comprise a wedge lying on crystalline bedrock (fig. 1). The Piedmont and Blue Ridge provinces are, for the most part, underlain by massive crystalline and metamorphic rocks that are covered nearly everywhere by a clayey or sandy regolith consisting of weathered parent rock material and alluvium.

Recharge to the ground-water system in North Carolina is derived from precipitation that ranges from about 44 to 54 inches (in.) in the Piedmont and Coastal Plain provinces and from about 40 to 80 in. in the Blue Ridge province (Eder and others, 1983). The amount of precipitation that recharges the ground-water system averages about 20 percent of annual precipitation (Winner and Simmons, 1977; Daniel and Sharpless, 1983). Most ground-water recharge moves through shallow aquifers and discharges to streams; only a small part (less than 1 in. in the Coastal Plain) recharges deeper aquifers.

PRINCIPAL AQUIFERS

The principal aquifers in North Carolina are the surficial, the Yorktown, the Castle Hayne, and the Cretaceous located in the Coastal Plain and the crystalline rock aquifer located in the Piedmont and Blue Ridge provinces. These aquifers are described below and in table 2; their areal distribution is shown in figure 1.

SURFICIAL AQUIFER

The surficial aquifer is a near-surface deposit of either marine-terrace sand and clay, or sand dunes. It is a principal aquifer in three areas where it is commonly more than 50 feet (ft) thick—the Sand Hills in the southwestern Coastal Plain, the narrow coastal strip of barrier islands called the Outer Banks, and the eastern one-half of the mainland north of Pamlico Sound (fig. 1). In the Sand Hills, where the aquifer may be more than 250 ft thick, it serves as a source for public supplies and irrigation for numerous golf courses (North Carolina Department of Natural Resources and Community Development, 1979). Water from this aquifer in the Sand

Table 1. Ground-water facts for North Carolina

[Withdrawal data rounded to two significant figures and may not add to totals because of independent rounding. Mgal/d = million gallons per day; gal/d = gallons per day. Source: Solley, Chase, and Mann, 1983]

Population served by ground water, 1980	
Number (thousands) - - - - -	3,234
Percentage of total population - - - - -	55
From public water-supply systems:	
Number (thousands) - - - - -	474
Percentage of total population - - - - -	8
From rural self-supplied systems:	
Number (thousands) - - - - -	2,760
Percentage of total population - - - - -	47
Freshwater withdrawals, 1980	
Surface water and ground water, total (Mgal/d) - - - - -	8,100
Ground water only (Mgal/d) - - - - -	770
Percentage of total - - - - -	10
Percentage of total excluding withdrawals for thermoelectric power - - - - -	20
Category of use	
Public-supply withdrawals:	
Ground water (Mgal/d) - - - - -	70
Percentage of total ground water - - - - -	9
Percentage of total public supply - - - - -	12
Per capita (gal/d) - - - - -	148
Rural-supply withdrawals:	
Domestic:	
Ground water (Mgal/d) - - - - -	140
Percentage of total ground water - - - - -	18
Percentage of total rural domestic - - - - -	100
Per capita (gal/d) - - - - -	51
Livestock:	
Ground water (Mgal/d) - - - - -	33
Percentage of total ground water - - - - -	4
Percentage of total livestock - - - - -	85
Industrial self-supplied withdrawals:	
Ground water (Mgal/d) - - - - -	490
Percentage of total ground water - - - - -	64
Percentage of total industrial self-supplied:	
Including withdrawals for thermoelectric power - - - - -	6
Excluding withdrawals for thermoelectric power - - - - -	17
Irrigation withdrawals:	
Ground water (Mgal/d) - - - - -	39
Percentage of total ground water - - - - -	5
Percentage of total irrigation - - - - -	30

Hills area has dissolved-solids concentrations less than 25 milligrams per liter (mg/L) and hardness less than 10 mg/L as calcium carbonate; the pH commonly is below 6, making it corrosive. Sands that form the Outer Banks are the only source of freshwater along much of the northeastern coast. The freshwater in these sands often has a dissolved-solids concentration of 500 mg/L and hardness of about 200 mg/L as calcium carbonate. On the mainland north of Pamlico Sound, the surficial aquifer ranges from 50 to 200 ft thick and may yield as much as 1 million gallons per day (Mgal/d) to single wells or small well fields. Here, water from the aquifer usually has dissolved-solids concentrations of less than 200 mg/L and hardness of less than 100 mg/L as calcium carbonate; the pH, however, may be as low as 5, which renders the

North Carolina Geologic Survey, 1985
Geologic Map of North Carolina
(Partial Copy)



ing, and are minor
 and hornblende gneiss
 megacrystic, abundant and gradational with quartz and amphibolite
 and tuffs and flowrock
 and basaltic to andesitic includes hypabyssal
 and dacitic to rhyolitic mafic and intermediate
 andalusite, kyanite, or
 and sillimanite; includes
 65-325 my; 11,9) — Tonic Suite (Western intrusives
 onian to Silurian, 385-Gold Hill, Kannapolis,
 an, 404 my; 9) — In-
 nian to Ordovician, 399-
 fecklenburg, and Wed-
 ve to weakly foliated;
 21) — Poorly foliated,
 ed to massive
 Foliated to massive
 bro, metadiorite, and
 dunite and peridotite; mafic rock. Only larger
 acrytic, well foliated;

YACON FORMATION — Metamorphosed sandstone, and siltstone, interbedded with mafic and intermediate volcanic flows and tuffs
METAMUDSTONE AND META-ARGILLITE — Thin to thick bedded; bedding plane and axial-planar cleavage common; interbedded with meta-sandstone, metaconglomerate, and metavolcanic rock
 CZmd₃ - Floyd Church Formation
 CZmd₂ - Cid Formation
 CZmd₁ - Tillery Formation } (southwest of Asheboro)
MAFIC METAVOLCANIC ROCK — Metamorphosed basaltic flows and tuffs, dark green to black; interbedded with felsic and intermediate metavolcanic rock and metamudstone
 CZmv₁ - Cid Formation (southwest of Asheboro)
FELSIC METAVOLCANIC ROCK — Metamorphosed dacitic to rhyolitic flows and tuffs, light gray to greenish gray; interbedded with mafic and intermediate metavolcanic rock, meta-argillite, and metamudstone
 CZfv₂ - Cid Formation (southwest of Asheboro)
 CZfv₁ - Uwharrie Formation (at Asheboro and to south)
INTERMEDIATE METAVOLCANIC ROCK — Metamorphosed andesitic tuffs and flows, medium to dark grayish green; minor felsic and mafic metavolcanic rock
METAVOLCANIC ROCK — Interbedded felsic to mafic tuffs and flowrock
METAVOLCANIC-EPICLASTIC ROCK — Metamorphosed argillite, mudstone, volcanic sandstone, conglomerate, and volcanic rock
VOLCANIC METACONGLOMERATE — Includes metagraywacke and metamudstone
PHYLLITE AND SCHIST — Locally laminated and pyritic; includes phyllonite, sheared fine-grained metasediment, and metavolcanic rock. In Lilesville granite aureole, includes hornfels (CZph₁), and biotite gneiss and schist (CZbg)

INTRUSIVE ROCKS

DIABASE — Dikes, gray to black
GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite
PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive
METAMORPHOSED QUARTZ DIORITE — Foliated to massive
METAMORPHOSED GABBRO AND DIORITE — Foliated to massive
METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes
META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, soapstone, and other altered ultramafic rock. Only larger bodies shown
METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, 520-660 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains hornblende. Chapel Hill, Chatham, Farrington, Meadow Flats, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County suites

SYMBOLS

Anticline — Showing direction of plunge
 Overturned anticline — Showing direction of dip of limbs
 Syncline — Showing direction of plunge
 Dike — Dashed where inferred from aeromagnetic data
 Scarp — Hachured on downslope side

Jr —
 Jd —
 PPg
 PPmg
 CZg
 NE
 Tcd
 Tcs

CLIMATIC ATLAS OF THE UNITED STATES



U.S. DEPARTMENT OF COMMERCE

C. R. Smith, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

Robert M. White, Administrator

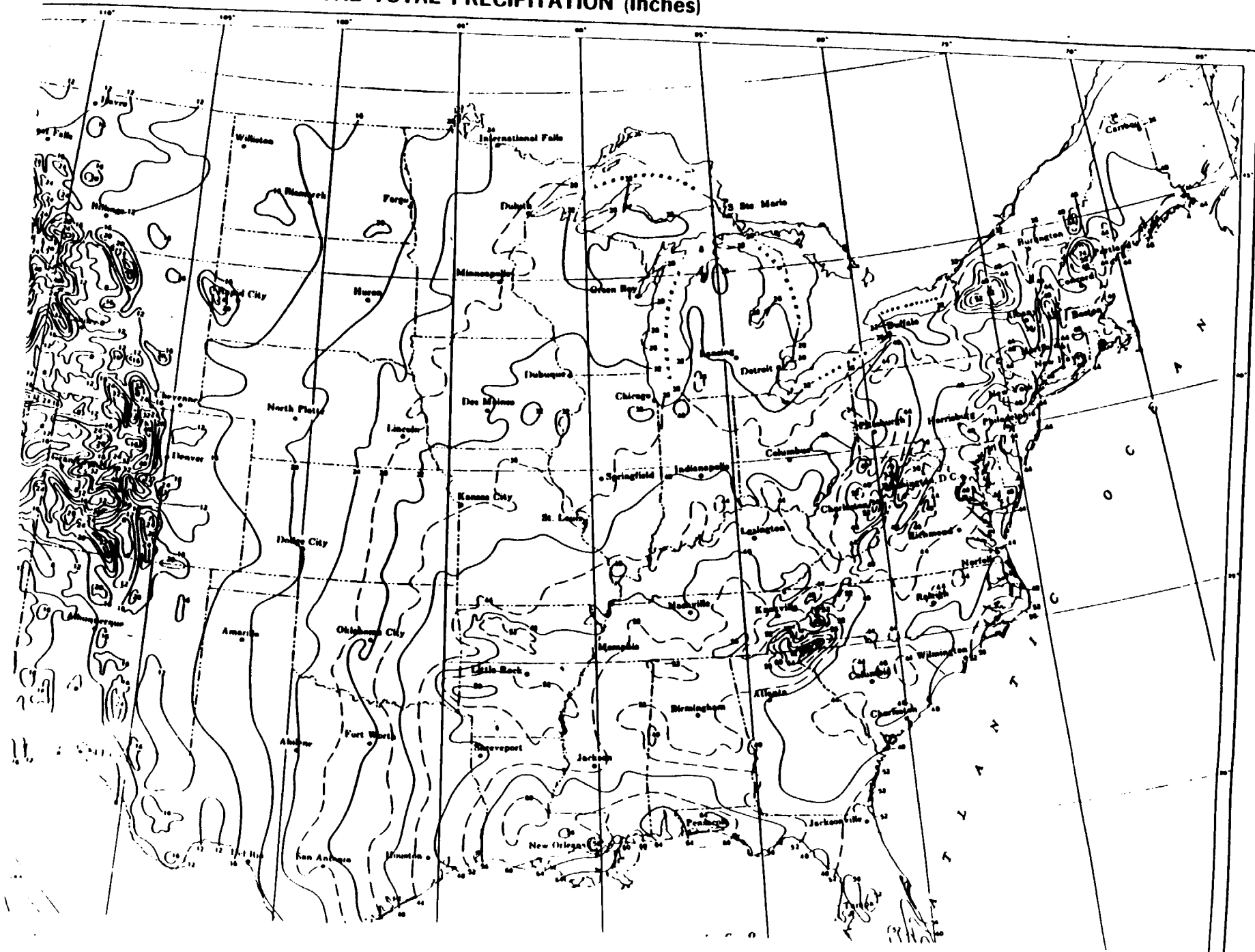
ENVIRONMENTAL DATA SERVICE

Woodrow C. Jacobs, Director

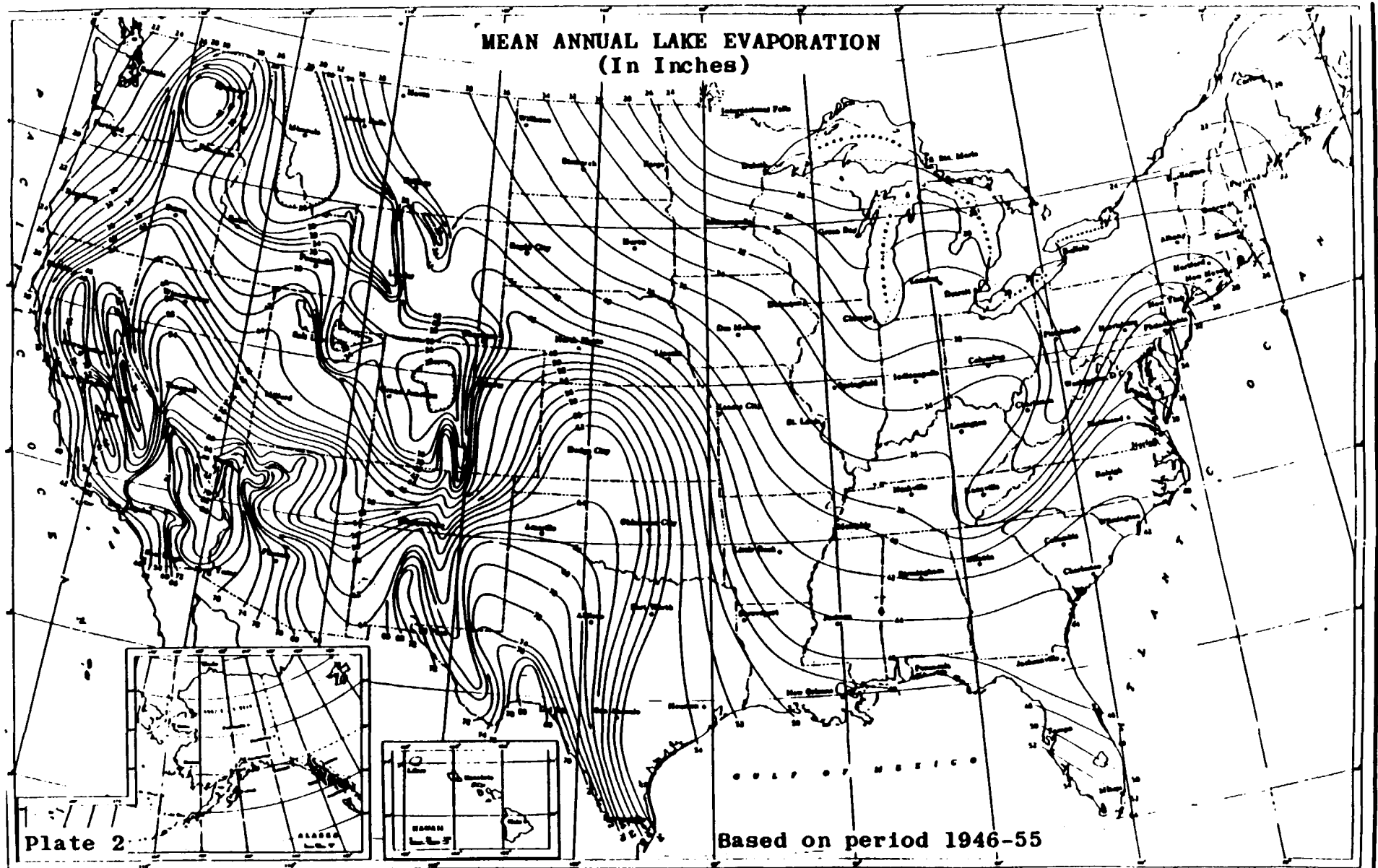
JUNE 1968

**REPRINTED BY THE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
1983**

NORMAL ANNUAL TOTAL PRECIPITATION (Inches)



MEAN ANNUAL LAKE EVAPORATION
(In Inches)



Reference No. 22

WELL RECORD

1. WFF LOCATION: show sketch of the location below

Nearest Town: Greensboro, N.C.

County: Guilford

Quadrant No. 652

(Proad, Community or Subdivision) (Vol. 111)

2. OWNER: Robert Beer

1. ADDRESS: Greensboro, N.C.

4. TOPOGRAPHY: Draw, valley, slope, hilltop, ^{flat} flat, circle, one

5. USE OF WELL: domestic DATE: ~~XXV-77~~ ~~XX~~ 3-78

6. DOES THIS WELL REPLACE AN EXISTING WELL

7. TOTAL DEPTH: 225 FEET OF WATER rotary

3. FORMATION SAMPLES COLLECTED: 110 _____ TO _____

1. CASING:	Depth	Inside	Wall thickness	Weight
	ft	dia	in	lb/ft

From 654 61 to 13 = 641

Page 20 cement hour

11. SERIAL: _____

12. GRAVEL: Depth _____ Size _____ Material _____
 From _____ to _____ ft. _____

11. WATER ZONES (depth):

14. STATIC WATER LEVEL: 30 ft. ^{above} _{below} top of casing
Casing is 6" ft. above land surface (1447)

15. YIELD (gms): 6 METHOD OF TESTING: air

16. PUMPING WATER LEVEL: _____ ft after _____ hours
at _____ gpm. 14 oz-50' wa

17. CHLORINATION: Type HTH Amount

13. WATER QUALITY: _____ TEMPERATURE: _____

19. PERMANENT PUMP: Date Installed _____
Type _____ Capacity _____ GPM HP _____
Make _____ Intake Depth _____
Airline Depth _____

20. HAS THE OWNER BEEN PROVIDED A COPY OF THE RECOMMENDATIONS?

21. REMARKS

I do hereby certify that this well and its construction are in accordance with the well Construction Regulations and Standards and that the well is in good condition and exact.

STATION	PLANT	DATE
---------	-------	------

DRILLING LOG		
DEPTH		FORMATION DESCRIPTION
FROM	TO	
0	15	red clay
15	654	brown dirt
654	225	gray granite mixed with dark green

drilling hole

972

Highway 100

Lodgepole Pine Rd. #2352

DRILLING CONTRACTOR Bainbridge & Dance REG. NO. 37 WELL CONSTRUCTION PERMIT NO. _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: XXXXXX Greensboro County: Guilford
Sweetbriar Rd #2204 Quadrangle No. G-53
(Road, Community or Subdivision and Lot No.)

2. OWNER: Brooks Lumber

DRILLING LOG

3. ADDRESS: Greensboro, N.C.

DEPTH FROM TO FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) hill

0 5 brown dirt

5. USE OF WELL: domestic DATE: rotary

5 60 soft shale

6. DOES THIS WELL REPLACE AN EXISTING WELL? _____

7. TOTAL DEPTH: 125' RIG TYPE OR METHOD: rotary

60 110 red shale

8. FORMATION SAMPLES COLLECTED: YES _____ NO _____

110 125 black granite

9. CASING: Depth Inside Wall thick. type
Dia. or weight/ft.

From _____ to 63 ft 6 1/2" 13# galb

10. GROUT: Depth Material Method
From _____ to 20 ft cement pour

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening
From _____ to _____ ft _____

12. GRAVEL: Depth Size Material
From _____ to _____ ft _____

13. WATER ZONES (depth): 70 - 110

14. STATIC WATER LEVEL: 30 ft. above top of casing
below
Casing is 60 ft. above land surface ELEV: _____

15. YIELD (gpm): 25 METHOD OF TESTING: air

16. PUMPING WATER LEVEL: _____ ft.
after _____ hours at _____ gpm.

17. CHLORINATION: Type HTH 1 1/2 oz. per gal. water

18. WATER QUALITY: _____ TEMPERATURE (°F) _____

19. PERMANENT PUMP: Date Installed _____

Type _____ Capacity _____ (gpm) HP _____

Make _____ Intake Depth _____

Airline Depth _____

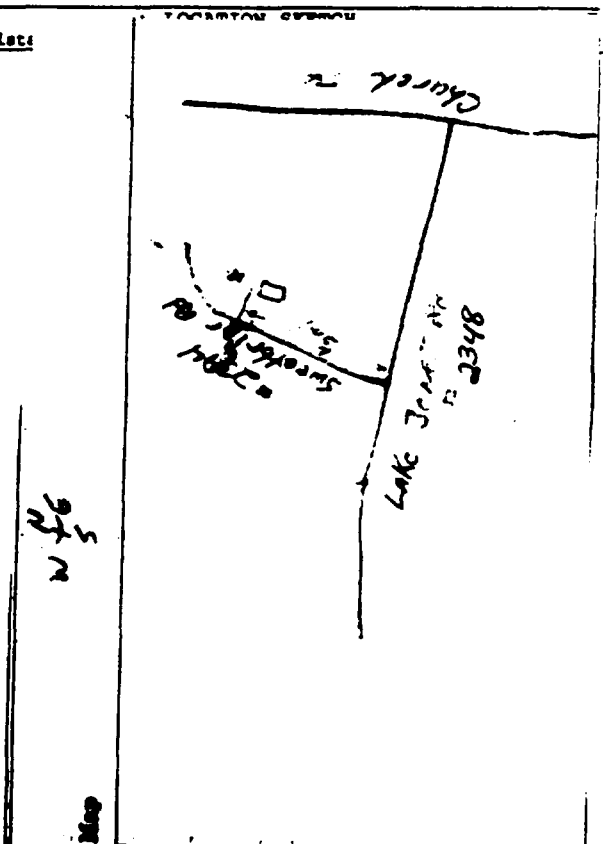
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? _____

21. REMARKS _____

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT _____ DATE _____

(Show dist.)



a product of
J. L. DARLING CORPORATION
TACOMA, WASHINGTON 98421 U.S.A.



LEVEL

NOTEBOOK NO. 311

Edwards, Ark. Hills

White Oak Plant 30

Greenville, NC

Greenville, SC

Greenville, SC

Greenville, SC

Greenville, SC

Reference No. 23

LOGBOOK REQUIREMENTS
REVISED - JANUARY 6, 1988

NOTE: ALL LANGUAGE SHOULD BE FACTUAL
AND OBJECTIVE

1. Record on front cover of the Logbook:
TDD No., Site Name, Site Location, Project Manager
2. All entries are made using ink.
3. Provide statement referencing Equipment Location Log.
4. Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
5. Sign and date each page. Project Manager is to review and sign off on each logbook daily.
6. A single line is drawn through error. Each correction is dated/initialed.
7. Report weather conditions. Provide general site description and remarks.
8. Document all changes from project planning documents.
9. Provide a site sketch with sample locations.
10. Document all calibration and pre-operational checks of equipment.
11. Provide reference to Sampling Field Sheets for detailed sampling information.
12. Maintain photo log by completing the stamped information at the end of the logbook.
13. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

August 19, 1988
0930- An ex'd meeting was held at NVS. The work plan, study plan, and safety plan was distributed to the FIT team members.

We, the undersigned FIT team members have read and understand the above mentioned documents:

Douglas M. Chatham
Willie Smitherman
Andy Spawgh
Clayton Brewer
Mark Hitchcock

[Signatures]
D. M. Chatham
W. Smitherman
A. Spawgh
C. Brewer
M. Hitchcock

D. M. Chatham 01

Aug. 22, 1988
Meeting with Cone Mills Personnel

0830 Following personnel were present:
 Douglas M. Chatham - NUS
 W. Smithman - NUS
 Andy Spangh.
 Jeff Knight - Gulf Oil Co. Engr. Health
 Arthur Thompson - Cone Mills
 Tom Shpangh - Cone Mills
 Gayle Younger - Cone Mills
 Garland Jaffer - Cone Mills
 Raymond Piquay - Cone Mills

We discussed our needs for taking samples - we assured them that we had no need to be inside the plant as to disrupt their operation. They requested split samples and provided their own bottles - The Hazardous Waste Storage Building is actually chemical storage. No way waste has ever been stored there.

D. M. Chatham

02

August 22, 1988
 Since there are no evident groundwater tanks, the temporary wells appear to be of little value. An inspection of the plant shows that there is no dye waste disposal area - rather it is a dye waste treatment plant with a series oferator ponds to reduce BOD & COD. Since there is no indication of any kind disposal of hazardous wastes, the surface soil and subsurface soil samples were not taken.

D. M. Chatham 03

1025 CM-SW-01 - Upstream
 August 22, 1988

Surface water sample
 taken under Fairview Bridge

There is a commercial
 warehouse ~ 200 yards
 upstream from bridge.

1030 CM-SW-01 - Upstream
 Sediment sample taken in
 same location as CM-SW-01

Samples - Willie Smithman
 Clayton Brewer

Sediment sample taken on
 upstream side of bridge
 and corrected 17 hand of
 clay - medium tan color

Refer to the Field Sheet for
 TDS No. FY-8803-57 for
 additional sample information.

D.M. Chalkin

1130

CM-SW-02

August 22, 1988

Samples - W. Smithman
 Clayton Brewer

Sample taken downstream
 from lb. 2 by white lagoon
 discharge pipe

CM-SW-02

Sample taken in same
 location as CM-SW-02.
 Dark sandy clay.

Refer to the Field Sheet for
 TDS No. FY-8803-57 for
 additional sample information

D.M. Chalkin 05

August 22, 1978

1215 CM. 51-03
Sampled - W. Smith
Dayton Brown
Sample taken on
ridge of summit fire

1220 CM 51-03
Sample taken at same
place as CM-51-03

Refer to the Field Sheet for
ID No. 8803-57 for
additional sample information.

J. M. Clifton

August 22, 1988

1215 CM-SW-03

Samples - W. Smitherman

Thylen Brewer
Sample taken from domination
side of Summit Ave.

1220 CM-SW-03

sample taken at same
place as CM-SW-03

Refer to the Field Notes for
ID# 8803-57 for
additional sample information.

06

D.M. Chatham

August 23, 1988

1200 - A house count of the
four areas north of the city
which are not within the
Conifer County city area.
Area was conducted. There
was a total of 238 houses
(including 25 trailers). The
area bounded by Lee's Chapel
Rd and Yanceyville Rd. had
178 houses. The area bounded
by Church St. and Lake Junaluska
Rd had 60 houses.

I talked to Ray Jones of the
Payson Pump Service. He said
they drilled the wells in the
two areas. The depth of
the wells range from 40 to
290 feet deep. He also said
that Lee's Chapel Rd. is on
city water and is the boundary.

Payson Pump Service

P.O. Box 150

Board's Summit

D.M. Chatham 07

8-19-88 D.M. Chatham

①

1000

Cone Mills White Oak Plant

Acacia Pond

8-19-88 D.M. Chatham

②

1025

Cone Mills White Oak Plant

N. Buffalo Creek - upstream
under Fairview St. Bridge

8-19-88 D.M. Chatham

③

1030

Cone Mills White Oak Plant

Upstream Salsburg Buffalo Creek
under Fairview St. Bridge

8-19-88 D.M. Chatham

1130 CM-5W-02 (1)

Cone Mills - White Oak Plant

Sample at waste treatment plant -
about 10 ft downstream from effluent pipe
of waste treatment plant

8-19-88 D.M. Chatham

1135 CM-5D-02 (5)

Cone Mills - White Oak Plant

Same as previous sample

8-19-88

D.M. Chatham

1140 CM-5D-02 (3)

Cone Mills - White Oak Plant

At waste treatment plant
looking upstream.

8-19-88

1215

Cone Mills - White Oak Plant

Downstream side of Summit
Ave. Bridge

D.M. Chatham

CM-5W-03 (1)



A Halliburton Company

SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM- Sw-01

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-6879

N. Buffalo Creek - upgradient

Duplicate

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 24, 1988

TIME : 1025

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. CRB.			
	4 OZ. GLASS	VOA			
	8 OZ. GLASS	METALS/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
2	1 GALLON GLASS	EXT. CRB.		DL 082	4-06421, 22
2	40 ML VIAL, GLASS	VOA		DL 082	4-06423, 24
1	1 LITER POLYPROPYLENE	METALS		MDL 082	4-06425
2	1 LITER POLYPROPYLENE	CYANIDE		MDL 082	4-06426, 27
	OTHER				

FIELD MEASUREMENTS

pH : 5.0

TEMPERATURE : 24°C

TIME :

CONDUCTIVITY : 127

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hnu

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.

F4-1007



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87

CASE NUMBER : 10268

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-SD-01

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-8678

N. Buffalo Creek Upgradient

Duplicate

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 22, 1988

TIME : 1030

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	8 OZ. GLASS	EXT. CRG.		DL 083	4-06428
1	4 OZ. GLASS	VOA		DL 083	4-06429
	8 OZ. GLASS	METALS/CYANIDE		MDL 083	4-06430
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1 GALLON GLASS	EXT. CRG.			
	40 ML VIAL, GLASS	VOA			
	1 LITER POLYPROPYLENE	METALS			
	1 LITER POLYPROPYLENE	CYANIDE			
	OTHER				

FIELD MEASUREMENTS

pH : _____

TEMPERATURE : _____

TIME : _____

CONDUCTIVITY : _____

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

NNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. F4-1007



A Halliburton Company

SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-67

CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-SW-02

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-6679

N. Buffalo Creek - midstream

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 22, 1988

TIME : 11 30

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. ORG.			
	4 OZ. GLASS	VOA			
	8 OZ. GLASS	METALS/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	1 GALLON GLASS	EXT. ORG.		DL 084	4-06431
2	40 ML VIAL, GLASS	VOA		DL 084	4-06432, 3
1	1 LITER POLYPROPYLENE	METALS		MOL 084	4-06434
1	1 LITER POLYPROPYLENE	CYANIDE		MOL 084	4-06435
	OTHER				

FIELD MEASUREMENTS

pH : 5.5

TEMPERATURE : 25°C

TIME :

CONDUCTIVITY : 849

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

RNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.

F4-1007



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87

CASE NUMBER : 10288

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM- 50-02

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-8679

N. Buffalo Creek - midstream

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 22, 1988

TIME : 1135

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	8 OZ. GLASS	EXT. ORG.		DL 085	4-06436
1	4 OZ. GLASS	VOA		DL 085	4-06437
1	8 OZ. GLASS	METALS/CYANIDE		DL 085	4-06438
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1 GALLON GLASS	EXT. ORG.			
	40 ML VIAL, GLASS	VOA			
	1 LITER POLYPROPYLENE	METALS			
	1 LITER POLYPROPYLENE	CYANIDE			
	OTHER				

FIELD MEASUREMENTS

pH : TEMPERATURE :

TIME :

CONDUCTIVITY :

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hnu

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. F4-1007



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANTTDD NO. : F4-8803-57 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINASAMPLE CODE : CM-SW-03SAMPLE LOCATION : N. Buffalo Creek - downgradientCONTACT : TOM ALSPAUGHPHONE : (919) 379-6879

SAMPLED BY :

1 DOUG CHATHAM3 ANDY SPAUGH2 WILLIE SMITHERMAN4 MARK HITCHCOCKDATE SAMPLED : AUGUST 22, 1988TIME : 1215

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. ORG.			
	4 OZ. GLASS	VOA			
	8 OZ. GLASS	METALS/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	1 GALLON GLASS	EXT. ORG.		DL 086	4-06439
2	40 ML VIAL, GLASS	VOA		DL 086	4-06440, 41
1	1 LITER POLYPROPYLENE	METALS		MDL 086	4-06442
1	1 LITER POLYPROPYLENE	CYANIDE		MDL 086	4-06443
	OTHER				

FIELD MEASUREMENTS

pH : 5.0TEMPERATURE : 25°C

TIME :

CONDUCTIVITY : 369

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

HNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. F4-1007



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87

CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-SD-03

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH
PHONE : (919) 379-8878

N. Buffalo Creek - downgradient

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 24, 1988

TIME : 1220

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	8 OZ. GLASS	EXT. ORG.		DL 087	4-06444
1	4 OZ. GLASS	VOA		DL 087	4-06445
1	8 OZ. GLASS	METALS/CYANIDE		MDL 087	4-06446
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1 GALLON GLASS	EXT. ORG.			
	40 ML VIAL, GLASS	VOA			
	1 LITER POLYPROPYLENE	METALS			
	1 LITER POLYPROPYLENE	CYANIDE			
	OTHER				

FIELD MEASUREMENTS

pH : _____

TEMPERATURE : _____

TIME : _____

CONDUCTIVITY : _____

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

NNU

WATER LEVEL

F4-1007

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. _____



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-67 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-TB-01
SAMPLE LOCATION : _____

CONTACT : TOM ALSPAUGH
PHONE : (919) 379-6679

Trip Blank

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 2nd, 1988

TIME : 1245

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. CRG.			
	4 OZ. GLASS	VOA			
	8 OZ. GLASS	METALS/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	1 GALLON GLASS	EXT. CRG.		DL 081	4-06416
2	40 ML VIAL, GLASS	VOA		DL 081	4-06417, 18
1	1 LITER POLYPROPYLENE	METALS		MDL 081	4-06419
1	1 LITER POLYPROPYLENE	CYANIDE		MDL 081	4-06420
	OTHER				

FIELD MEASUREMENTS

pH : _____ TEMPERATURE : _____

TIME :			
CONDUCTIVITY :			

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

NNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. F4-1007



A Halliburton Company

SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87

CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-584

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM- PW-01

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-6679

Johansen Well

BLANK H₂O

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 27, 1988

TIME : 1310

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. ORG.			
	4 OZ. GLASS	VOA			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	1 GALLON GLASS	EXT. ORG.		DC 077	4-06402
2	40 ML VIAL, GLASS	VOA		DC 077	4-06402
1	1 LITER POLYPROPYLENE	METALS		MDL 077	4-06404
1	1 LITER POLYPROPYLENE	CYANIDE		MDL 077	4-06405
	OTHER				

FIELD MEASUREMENTS

pH : TEMPERATURE :

TIME :

CONDUCTIVITY :

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hnu

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.

F4-1007



A Halliburton Company

SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-PW-02
SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH
PHONE : (919) 379-6579

Jane Well
Spike H₂O

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST²⁴, 1988

TIME : 1350

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. CRG.			
	4 OZ. GLASS	VOA			
	8 OZ. [REDACTED]				
	OTHER [REDACTED]				

SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	1 GALLON GLASS	EXT. CRG.		DL 078	4-06406
2	40 ML VIAL, GLASS	VOA		DL 078	4-06407, 08
1	1 LITER POLYPROPYLENE	METALS		MDL 078	4-06409
1	1 LITER POLYPROPYLENE	CYANIDE		MDL 078	4-06410
	OTHER				

FIELD MEASUREMENTS

pH : TEMPERATURE :

TIME :
CONDUCTIVITY :

WATER LEVELS

PRIOR TO PURGING:
PRIOR TO SAMPLING:

PURGING

METHOD: RATE:
TOTAL EST. GAL REMOVED:

TIME START:
TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

NNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.

F4-1007



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-SW-04
SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH
PHONE : (919) 379-8579

Holding Tank

ICS

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST , 1988

TIME : 1430

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	8 OZ. GLASS	EXT. ORG.			
	4 OZ. GLASS				
	8 OZ. GLASS				
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1 GALLON GLASS	EXT. ORG.			
	40 ML VIAL, GLASS	VGA			
1	1 LITER POLYPROPYLENE	METALS		MDL 079	4-06411
	1 LITER POLYPROPYLENE	CYANIDE			
	OTHER				

FIELD MEASUREMENTS

pH : TEMPERATURE :

TIME :
CONDUCTIVITY :

WATER LEVELS

PRIOR TO PURGING:
PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL. REMOVED:

TIME START:
TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hnu

WATER LEVEL

F4-1007

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.



SAMPLING FIELD SHEET

SITE : CONE MILLS CORP. WHITE OAK PLANT

TDD NO. : F4-8803-87 CASE NUMBER : 10258

PROJECT NUMBERS-ORGANIC: 88-807 INORGANIC: 88-884

ADDRESS : 2420 FAIRVIEW STREET
GREENSBORO, NORTH CAROLINA

SAMPLE CODE : CM-50-05

SAMPLE LOCATION :

CONTACT : TOM ALSPAUGH

PHONE : (919) 379-6878

Textile Rd. Drainage Ditch

Blank Soil

SAMPLED BY :

1 DOUG CHATHAM

3 ANDY SPAUGH

2 WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 24 1988

TIME : 1500

SOIL / SEDIMENT SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
1	8 OZ. GLASS	EXT. CRB.		DL 080	4-06412
1	4 OZ. GLASS	VOA		DL 080	4-06413
1	8 OZ. GLASS	METALS/CYANIDE		MDL 080	4-06414
	OTHER				

NO.	CONTAINER	ANALYSIS	SAMPLE NO.	TAG NO.
1	GALLON GLASS	EXT. CRB.		
	40 ML VIAL, GLASS	VOA		
	1 LITER POLYPROPYLENE	METALS		
	1 LITER POLYPROPYLENE	CYANIDE		
	OTHER			

FIELD MEASUREMENTS

pH : TEMPERATURE :

TIME :

CONDUCTIVITY :

WATER LEVELS

PRIOR TO PURGING:

PRIOR TO SAMPLING:

PURGING

METHOD:

RATE:

TOTAL EST. GAL REMOVED:

TIME START:

TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hnu

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.

F4-1007



1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710

C-586-8-8-189

August 25, 1988

Mr. Tom Bennett
Environmental Protection Agency
College Station Road
Athens, GA 30613

Subject: Cone Mills Corp.
White Oak Plant
Greensboro, NC
TDD No. F4-8803-57

Agrico Chemical #2
Greensboro, NC
TDD No. F4-8804-09

Dear Mr. Bennett:

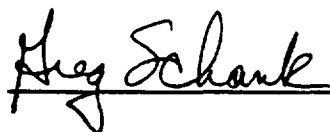
Enclosed please find the inorganic traffic reports, for Case Number's 10258 & 10257. Case #10258 was shipped on August 24, 1988. Case #10257 was shipped on August 25, 1988.

If you have any questions on the paperwork or shipments, please contact me.

Very truly yours,


Andrew Spaugh
Field Administration

Approved



AS/kw

Enclosures



1927 LAKESIDE PARKWAY
SUITE 814
TUCKER, GEORGIA 30084
404-938-7710

C-586-8-8-188

August 25, 1988

Mr. Tom Seigler
HWI Sample Management Office
Post Office Box 818
Alexandria, Virginia 22313

Subject: Cone Mills Corp.
White Oak Plant
Greensboro, NC
TDD No. F4-8803-57

Agrico Chemical #2
Greensboro, NC
TDD No. F4-8804-09

Dear Mr. Seigler:

Enclosed please find the inorganic traffic reports, for Case Number's 10258 & 10257. Case #10258 was shipped on August 24, 1988. Case #10257 was shipped on August 25, 1988.

If you have any questions on the paperwork or shipments, please contact me.

Very truly yours,


Andrew Spaugh
Field Administration

Approved



AS/kw

Enclosures

INORGANIC TRAFFIC REPORT

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FOR CLP USE ONLY)
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TYPE OF ACTIVITY (CIRCLE ONE) ① SUPERFUND-PA ② ESI RIFS AD RA ER NPLD O&M OTHER _____ NON-SUPERFUND-_____ PROGRAM		SHIP TO: JTC Emision. Consultants Four Research Pkwy Suite L-10 Rockville, MD 20850 ATTN: NORMA JAMES	
SITE NAME: Conc Mills Corp.	CITY, STATE: GACENS Ga., NC	SITE SPILL ID:	
REGION NO.: IV	SAMPLING COMPANY: NUS Corp.	②	
SAMPLER: (NAME) ANDY SPAUGH		BEGIN: _____ END: _____	
AIRBILL NO.: 9048021010	DATE SHIPPED: 8/24 CARRIER: FE	SAMPLING DATE: 8/22/84	④
		SAMPLE DESCRIPTION (ENTER IN BOX A) 1. SURFACE WATER 4. SOIL 2. GROUND WATER 5. SEDIMENT 3. LEACHATE 6. OIL (SAS) 7. WASTE (SAS)	
SEE REVERSE FOR ADDITIONAL INSTRUCTIONS		DOUBLE VOLUME REQUIRED FOR MATRIX SPIKE/DUPLICATE AQUEOUS SAMPLE SHIP MEDIUM AND HIGH CONCENTRATION SAMPLES IN PAINT CANS	

[illegible]

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DATE	
TIME	
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22
1177383554

1177383556

1177383575

1177383584

1177383593

1177383593

Sender's Federal Express Account Number _____ Date _____

From (Your Name) Please Print _____ Your Phone Number (Very Important) _____

Company _____ Department/Floor No _____

Street Address _____ City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

To (Recipient's Name) Please Print _____ Recipient's Phone Number (Very Important) _____

Company _____ Department/Floor No _____

Street Address (No Street Number to P.O. Boxes or P.O. Zip Codes) _____ City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

City _____ State _____ ZIP Required _____

SENDER'S COPY

YOUR ONLINE REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE)

PAYMENT ☐ Bill Sender ☐ Bill Recipient's Federal Account No. ☐ Bill Third Party Federal Account No. ☐ Bill Credit Card

SERVICES

1 ☐ PRIORITY 1 6 ☐ OVERNIGHT LETTERS

2 ☐ COURIER-PAY 7 ☐ OVERNIGHT ENVELOPES

3 ☐ OVERNIGHT 8 ☐ BOX

4 ☐ OVERNIGHT 9 ☐ TUBE

5 ☐ STANDARD 10 ☐ AIR (Priority Mail) (Not for International Shipments) (Not for Shipments to Puerto Rico)

DELIVERY AND SPECIAL HANDLING

1 ☐ HOLD FOR PICK-UP (Not for Shipments to P.O. Boxes)

2 ☐ DELIVER WEEKDAY 3 ☐ DELIVER SATURDAY (Not for Shipments to P.O. Boxes)

4 ☐ DELIVER SUNDAY (Not for Shipments to P.O. Boxes)

5 ☐ DELIVER MONDAY (Not for Shipments to P.O. Boxes)

6 ☐ DELIVER TUESDAY (Not for Shipments to P.O. Boxes)

7 ☐ DELIVER WEDNESDAY (Not for Shipments to P.O. Boxes)

8 ☐ DELIVER THURSDAY (Not for Shipments to P.O. Boxes)

9 ☐ DELIVER FRIDAY (Not for Shipments to P.O. Boxes)

10 ☐ DELIVER SATURDAY (Not for Shipments to P.O. Boxes)

11 ☐ DELIVER SUNDAY (Not for Shipments to P.O. Boxes)

12 ☐ DELIVER MONDAY (Not for Shipments to P.O. Boxes)

13 ☐ DELIVER TUESDAY (Not for Shipments to P.O. Boxes)

14 ☐ DELIVER WEDNESDAY (Not for Shipments to P.O. Boxes)

15 ☐ DELIVER THURSDAY (Not for Shipments to P.O. Boxes)

16 ☐ DELIVER FRIDAY (Not for Shipments to P.O. Boxes)

17 ☐ DELIVER SATURDAY (Not for Shipments to P.O. Boxes)

18 ☐ DELIVER SUNDAY (Not for Shipments to P.O. Boxes)

19 ☐ DELIVER MONDAY (Not for Shipments to P.O. Boxes)

20 ☐ DELIVER TUESDAY (Not for Shipments to P.O. Boxes)

21 ☐ DELIVER WEDNESDAY (Not for Shipments to P.O. Boxes)

22 ☐ DELIVER THURSDAY (Not for Shipments to P.O. Boxes)

1177383593

1177383593

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.** F4-8803-58**DATE:** May 9, 1988**TIME:** 3:00 p.m.**DISTRIBUTION:**

Glass, E. H. Co. Landfill
Cone Mills Corp. - White Oak Plant

BETWEEN: Don Grubbs**OF:** Guilford Co. Water Dept.
Greensboro, N. C.**PHONE:** (919) 373-2055**AND:** Joan Dupont, NUS Corporation*Joan Dupont 5/9/88***DISCUSSION:**

The Guilford County Water Department obtains its water supply from Lake Townsend, Lake Higgins, and Lake Brandt. The county has two raw water lines; water from Lakes Brandt and Higgins is treated at Mitchell and water from Lake Townsend is treated at Townsend. Water from the different lines is probably combined somewhere in the distribution system; Mr. Grubbs said he would have to check pipeline maps to verify this. The water system has approximately 66,000 accounts (i.e., connections).

Inside the city limits of Greensboro, approximately 99.9% of the people are served by the county water system. Water is also provided by the county in its service areas outside the city limits; however, residents outside the city limits are not required to be hooked up to the water and sewer lines. Mr. Grubbs did not know how to find out which residents were not hooked up, other than going through individual account records.

From the dam at Lake Townsend, Guilford County's water service lines go south. Mr. Grubbs was not sure whether areas north of Guilford's service areas (i.e., south of Lakes Townsend and Jeannette) are on wells and septic tanks. Residences along service area boundary lines are served by county water. There are no other water service areas immediately north of Guilford County's water service areas; the next closest water service area to the north is located in Reidsville, in Rockingham County.

Lake Jeannette was formerly called Richland Lake, among other names. It is owned by the Cone Mills Corporation and has been developed by the company as a residential area. The residents are on Guilford County water.

Groundwater wells in the Greensboro area are approximately 150 feet deep or deeper; Mr. Grubbs has a well that is approximately 360 feet deep and supplies good water. He did not know the depth of the water table.

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.****DATE:** January 26, 1989**TIME:** 0830**DISTRIBUTION:****BETWEEN:** Tom Alspaugh**OF:** Cone Mills Corp.**PHONE:** (919) 379-6579**AND:** Doug Chatham**DISCUSSION:**

Mr. Alspaugh said that the White Oak Plant has been in operation since 1896. He requested a copy of the report for their files.

ACTION ITEMS:

I will send the request for a copy of the report to the EPA contact with an additional copy of the report.

Name of Facility/Site

CONE MILLS CURP
 WHITE OAK PLANT

Facility/Site Location

2420 FAIRVIEW ST.
GREENSBORO, N.C.

PROJ. NO.	PROJECT NAME
-----------	--------------

88-607
88-584

SAMPLERS: (8) nature

Split Samples Offered

(☒) Accepted (☐) Declined

Transferred by: (Signature)

Arthur S. J. J.

Received by: (Signature)

Received by: Signature) Arthur J. Thompson

Telephone

919 379.6226

(Date _____)

8/22/88

Time

1300

Title

Envi Env.

Date _____

8-22-88

Time

1300

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

CONE MILLS CORP., WHITE OAK PLANT
EPA SITE NUMBER NID0000776914
GREENSBORO
GUILFORD COUNTY, NC
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY D.M. CHATHAM
OF NUS CORPORATION
ON 01/13/89

DATE OF THIS REPORT: 01/13/89
DATE OF LAST MODIFICATION: 01/13/89

GROUND WATER ROUTE SCORE :	0.00
SURFACE WATER ROUTE SCORE:	0.00
AIR ROUTE SCORE :	0.00

MIGRATION SCORE :	0.00

HRS GROUND WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCOPE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
DEPTH TO WATER TABLE	15 FEET		
DEPTH TO BOTTOM OF WASTE	6 FEET		
DEPTH TO AQUIFER OF CONCERN	9 FEET	3	6
PRECIPITATION	44.0 INCHES		
EVAPORATION	40.5 INCHES		
NET PRECIPITATION	3.5 INCHES	1	1
PERMEABILITY	1.0×10^{-6} CM/SEC	1	1
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			11
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:			0
WASTE QUANTITY CUBIC YDS	0		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	0 CU. YDS	0	0
TOTAL WASTE CHARACTERISTICS SCORE:			0
5. TARGETS			
GROUND WATER USE		3	9
DISTANCE TO NEAREST WELL	10000 FEET		
AND	MATRIX VALUE	12	12
TOTAL POPULATION SERVED	735 PERSONS		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	735		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			21
GROUND WATER ROUTE SCORE (Sgw) = 0.00			

HRS SURFACE WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER	NO		
SITE WITHIN CLOSED BASIN	NO		
FACILITY SLOPE	6.7 %		
INTERVENING SLOPE	7.5 %	2	2
24-HOUR RAINFALL	2.7 INCHES	2	2
DISTANCE TO DOWN-SLOPE WATER	400 FEET	3	3
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			13
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:			0
WASTE QUANTITY CUBIC YDS	0		
DRUMS	0		
GALLONS	0		
TONS	0		
TOTAL	0 CU. YDS	0	0
TOTAL WASTE CHARACTERISTICS SCORE:			0
5. TARGETS			
SURFACE WATER USE		0	0
DISTANCE TO SENSITIVE ENVIRONMENTS		0	0
COASTAL WETLANDS	NONE		
FRESH WATER WETLANDS	NONE		
CRITICAL HABITAT	NONE		
DISTANCE TO STATIC WATER	> 3 MILES		
DISTANCE TO WATER SUPPLY INTAKE	> 3 MILES		
AND MATRIX VALUE		0	0
TOTAL POPULATION SERVED	0		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			

SURFACE WATER ROUTE SCORE (S_{SW}) = 0.00

HRS AIR ROUTE SCORE

<u>CATEGORY/FACTOR</u>	<u>RAW DATA</u>	<u>ASN. VALUE</u>	<u>SCORE</u>
1. OBSERVED RELEASE	NO	0	0
2. WASTE CHARACTERISTICS			
REACTIVITY:			
INCOMPATIBILITY		MATRIX VALUE	
TOXICITY			
WASTE QUANTITY	CUBIC YARDS		
	DRUMS		
	GALLONS		
	TONS		
	TOTAL		
TOTAL WASTE CHARACTERISTICS SCORE:			N/A
3. TARGETS			
POPULATION WITHIN 4-MILE RADIUS			
0 to 0.25 mile			
0 to 0.50 mile			
0 to 1.0 mile			
0 to 4.0 miles			
DISTANCE TO SENSITIVE ENVIRONMENTS			
COASTAL WETLANDS			
FRESH-WATER WETLANDS			
CRITICAL HABITAT			
DISTANCE TO LAND USES			
COMMERCIAL/INDUSTRIAL			
PARK/FOREST/RESIDENTIAL			
AGRICULTURAL LAND			
PRIME FARMLAND			
HISTORIC SITE WITHIN VIEW?			
TOTAL TARGETS SCORE:			N/A

AIR ROUTE SCORE (Sa) = 0.00

HAZARD RANKING SYSTEM SCORING CALCULATIONS
FOR
SITE: CONE MILLS CORP., WHITE OAK PLANT
AS OF 01/13/89

PAGE 5

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS		11
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	0
TARGETS	X	21

$$= \frac{0}{57,330} \times 100 = 0.00 = S_{gw}$$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS		13
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	0
TARGETS	X	0

$$= \frac{0}{64,350} \times 100 = 0.00 = S_{sw}$$

AIR ROUTE SCORE

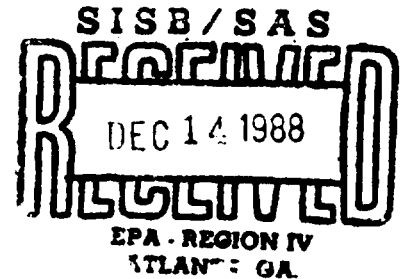
$$\text{OBSERVED RELEASE} \quad \frac{0}{35,100} \times 100 = 0.00 = S_{air}$$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	<u>S</u>	<u>S²</u>
GROUND WATER ROUTE SCORE (S _{gw})	0.00	0.00
SURFACE WATER ROUTE SCORE (S _{sw})	0.00	0.00
AIR ROUTE SCORE (S _{air})	0.00	0.00
S ² _{gw} + S ² _{sw} + S ² _{air}		0.00
-J (S ² _{gw} + S ² _{sw} + S ² _{air})		0.00
S _M = -J (S ² _{gw} + S ² _{sw} + S ² _{air}) / 1.73		0.00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 12/03/88

SUBJECT: Results of Metals Analysis;
88-584 CONE MILLS WHITE OAK
GREENSBORO NC
CASE NO: 10258

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

*** **
** PROJECT NO. 88-584 SAMPLE NO. 29188 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L082 **
**

*** **		*** **	
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
320	ALUMINUM	110U	MANGANESE
580U	ANTIMONY	.2UR	MERCURY
6U	ARSENIC	30U	NICKEL
21	BARIUM	2000U	POTASSIUM
1U	BERYLLIUM	4U	SELENIUM
4U	CADMIUM	9U	SILVER
12000	CALCIUM	2900U	SODIUM
7U	CHROMIUM	1.7U	THALLIUM
8U	COBALT	NA	TIN
38J	COPPER	22	VANADIUM
810	IRON	40U	ZINC
9J	LEAD		
2300	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29189 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC
** STATION ID: SD-01 COLLECTION START: 08/22/88 STOP: 00/00/00
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L083
**

MG/KG ANALYTICAL RESULTS		MG/KG ANALYTICAL RESULTS	
14000	ALUMINUM	320	MANGANESE
17U	ANTIMONY	.15UR	MERCURY
1.7U	ARSENIC	12	NICKEL
84	BARIUM	260U	POTASSIUM
.23U	BERYLLIUM	.91U	SELENIUM
1.1U	CADMIUM	2.4UJ	SILVER
1500	CALCIUM	850U	SODIUM
40J	CHROMIUM	.5U	THALLIUM
13	COBALT	NA	TIN
86	COPPER	77	VANADIUM
21000	IRON	91	ZINC
57	LEAD	32	PERCENT MOISTURE
2100	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

*** ** ** ** **
** PROJECT NO. 88-584 SAMPLE NO. 29190 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-02 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L084 **
** ** ** **

UG/L ANALYTICAL RESULTS		UG/L ANALYTICAL RESULTS	
170U	ALUMINUM	260	MANGANESE
580U	ANTIMONY	.2UR	MERCURY
24	ARSENIC	16U	NICKEL
22	BARIUM	20000	POTASSIUM
1U	BERYLLIUM	9	SELENIUM
4U	CADMIUM	20U	SILVER
12000	CALCIUM	98000	SODIUM
10	CHROMIUM	1.7U	THALLIUM
8U	COBALT	NA	TIN
150J	COPPER	14U	VANADIUM
540	IRON	50U	ZINC
4.7J	LEAD		
2800	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29191 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-02 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L085 **
**

*** MG/KG ANALYTICAL RESULTS		*** MG/KG ANALYTICAL RESULTS	
3600	ALUMINUM	130	MANGANESE
20U	ANTIMONY	.12UR	MERCURY
2.2	ARSENIC	17	NICKEL
40	BARIUM	220U	POTASSIUM
4U	BERYLLIUM	.75U	SELENIUM
3	CADMIUM	30UJ	SILVER
950U	CALCIUM	700U	SODIUM
46J	CHROMIUM	.41U	THALLIUM
23	COBALT	NA	TIN
24	COPPER	38	VANADIUM
11000	IRON	62	ZINC
30	LEAD	18	PERCENT MOISTURE
650	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

*** **
** PROJECT NO. 88-584 SAMPLE NO. 29192 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-03 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L086 **
**

*** **		*** **		*** **	
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
360	ALUMINUM	160	MANGANESE		
580J	ANTIMONY	.20R	MERCURY		
10	ARSENIC	50U	NICKEL		
84	BARIUM	9000	POTASSIUM		
10U	BERYLLIUM	4U	SELENIUM		
13	CADMIUM	20U	SILVER		
12000	CALCIUM	43000	SODIUM		
34	CHROMIUM	1.7U	THALLIUM		
57	COBALT	NA	TIN		
49J	COPPER	50	VANADIUM		
700	IRON	40U	ZINC		
8.4J	LEAD				
3000	MAGNESIUM				

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

*** **
** PROJECT NO. 88-584 SAMPLE NO. 29193 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-03 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: L087 **
**

MG/KG ANALYTICAL RESULTS		MG/KG ANALYTICAL RESULTS	
3900	ALUMINUM	85	MANGANESE
20U	ANTIMONY	.13UR	MERCURY
3.7	ARSENIC	11	NICKEL
14	BARIUM	240U	POTASSIUM
.21U	BERYLLIUM	.82U	SELENIUM
.98U	CADMIUM	2.2UJ	SILVER
850	CALCIUM	760U	SODIUM
36J	CHROMIUM	.45U	THALLIUM
6	COBALT	NA	TIN
9.7	COPPER	27	VANADIUM
9100	IRON	79	ZINC
25	LEAD	24	PERCENT MOISTURE
1500	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT

** PROJECT NO. 88-584 SAMPLE NO. 29194 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: TB-01 COLLECTION START: 08/22/88 STOP: 00/00/00 **
** CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: LOB1 **

UG/L ANALYTICAL RESULTS		UG/L ANALYTICAL RESULTS	
170U	ALUMINUM	20U	MANGANESE
580U	ANTIMONY	.2UR	MERCURY
6U	ARSENIC	16U	NICKEL
11U	BARIUM	880U	POTASSIUM
1U	BERYLLIUM	4U	SELENIUM
4U	CADMIUM	20U	SILVER
410U	CALCIUM	2900U	SODIUM
7U	CHROMIUM	1.7U	THALLIUM
8U	COBALT	NA	TIN
220U	COPPER	14U	VANADIUM
30U	IRON	20U	ZINC
1U	LEAD		
500U	MAGNESIUM		

REMARKS

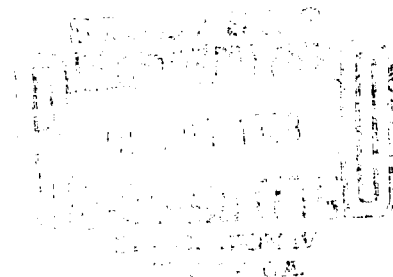
REMARKS

FOOTNOTES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 11/18/88

SUBJECT: Results of Purgeable Organic Analysis;
88-607 CONE MILLS-WHITE OAK
GREENSBORO NC

FROM: Tom B. Bennett, Jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

*** ** ** ** **
** PROJECT NO. 88-607 SAMPLE NO. 29091 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1030 STOP: 00/00/00 **
*** ** ** ***

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
19U	CHLOROMETHANE	19U	CIS-1,3-DICHLOROPROPENE
19U	VINYL CHLORIDE	190U	METHYL ISOBUTYL KETONE
19U	BROMOMETHANE	11J	TOLUENE
19U	CHLOROETHANE	19U	TRANS-1,3-DICHLOROPROPENE
19U	TRICHLOROFLUOROMETHANE	19U	1,1,2-TRICHLOROETHANE
19U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	19U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
190U	ACETONE	19U	1,3-DICHLOROPROPANE
190U	CARBON DISULFIDE	190U	METHYL BUTYL KETONE
19U	METHYLENE CHLORIDE	19U	DIBROMOCHLOROMETHANE
19U	TRANS-1,2-DICHLOROETHENE	19U	CHLOROBENZENE
19U	1,1-DICHLOROETHANE	19U	1,1,1,2-TETRACHLOROETHANE
190U	VINYL ACETATE	19U	ETHYL BENZENE
19U	CIS-1,2-DICHLOROETHENE	19U	(M- AND/OR P-)XYLENE
19U	2,2-DICHLOROPROPANE	19U	O-XYLENE
22J	METHYL ETHYL KETONE	19U	STYRENE
19U	BROMOCHLOROMETHANE	19U	BROMOFORM
19U	CHLOROFORM	19U	BROMOBENZENE
19U	1,1,1-TRICHLOROETHANE	19U	1,1,2,2-TETRACHLOROETHANE
19U	1,1-DICHLOROPROPENE	19U	1,2,3-TRICHLOROPROPANE
19U	CARBON TETRACHLORIDE	19U	O-CHLOROTOLUENE
19U	1,2-DICHLOROETHANE	19U	P-CHLOROTOLUENE
19U	BENZENE	19U	1,3-DICHLOROBENZENE
19U	TRICHLOROETHENE(TRICHLOROETHYLENE)	19U	1,4-DICHLOROBENZENE
19U	1,2-DICHLOROPROPANE	19U	1,2-DICHLOROBENZENE
19U	DIBROMOMETHANE	29.0	PERCENT MOISTURE
19U	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1135 STOP: 00/00/00 **

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
21U	CHLOROMETHANE	21U	CIS-1,3-DICHLOROPROPENE
21U	VINYL CHLORIDE	210U	METHYL ISOBUTYL KETONE
21U	BROMOMETHANE	3.6J	TOLUENE
21U	CHLOROETHANE	21U	TRANS-1,3-DICHLOROPROPENE
21U	TRICHLOROFLUOROMETHANE	21U	1,1,2-TRICHLOROETHANE
21U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	21U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
210U	ACETONE	21U	1,3-DICHLOROPROPANE
210U	CARBON DISULFIDE	210U	METHYL BUTYL KETONE
21U	METHYLENE CHLORIDE	21U	DIBROMOCHLOROMETHANE
21U	TRANS-1,2-DICHLOROETHENE	21U	CHLOROBENZENE
5.4J	1,1-DICHLOROETHANE	21U	1,1,1,2-TETRACHLOROETHANE
210U	VINYL ACETATE	21U	ETHYL BENZENE
21U	CIS-1,2-DICHLOROETHENE	21U	(M- AND/OR P-)XYLENE
21U	2,2-DICHLOROPROPANE	21U	O-XYLENE
210U	METHYL ETHYL KETONE	21U	STYRENE
21U	BROMOCHLOROMETHANE	21U	BROMOFORM
21U	CHLOROFORM	21U	BROMOBENZENE
21U	1,1,1-TRICHLOROETHANE	21U	1,1,2,2-TETRACHLOROETHANE
21U	1,1-DICHLOROPROPENE	21U	1,2,3-TRICHLOROPROPANE
21U	CARBON TETRACHLORIDE	21U	O-CHLOROTOLUENE
21U	1,2-DICHLOROETHANE	21U	P-CHLOROTOLUENE
21U	BENZENE	21U	1,3-DICHLOROBENZENE
21U	TRICHLOROETHENE(TRICHLOROETHYLENE)	21U	1,4-DICHLOROBENZENE
21U	1,2-DICHLOROPROPANE	21U	1,2-DICHLOROBENZENE
21U	DIBROMOMETHANE	24.0	PERCENT MOISTURE
21U	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

11/17/88

PURGEABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD COLLECTION START: 08/22/88 1220 STOP: 00/00/00 **
*** **

UG/KG ANALYTICAL RESULTS

20U CHLOROMETHANE
20U VINYL CHLORIDE
20U BROMOMETHANE
20U CHLOROETHANE
20U TRICHLOROFLUOROMETHANE
20U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
200U ACETONE
200U CARBON DISULFIDE
20U METHYLENE CHLORIDE
20U TRANS-1,2-DICHLOROETHENE
20U 1,1-DICHLOROETHANE
200U VINYL ACETATE
20U CIS-1,2-DICHLOROETHENE
20U 2,2-DICHLOROPROPANE
200U METHYL ETHYL KETONE
20U BROMOCHLOROMETHANE
20U CHLOROFORM
20U 1,1,1-TRICHLOROETHANE
20U 1,1-DICHLOROPROPENE
20U CARBON TETRACHLORIDE
20U 1,2-DICHLOROETHANE
20U BENZENE
20U TRICHLOROETHENE(TRICHLOROETHYLENE)
20U 1,2-DICHLOROPROPANE
20U DIBROMOMETHANE
20U BROMODICHLOROMETHANE

UG/KG ANALYTICAL RESULTS

20U CIS 1,3-DICHLOROPROPENE
200U METHYL ISOBUTYL KETONE
8.0J TOLUENE
20U TRANS-1,3-DICHLOROPROPENE
20U 1,1,2-TRICHLOROETHANE
20U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
20U 1,3-DICHLOROPROPANE
200U METHYL BUTYL KETONE
20U DIBROMOCHLOROMETHANE
20U CHLOROBENZENE
20U 1,1,1,2-TETRACHLOROETHANE
20U ETHYL BENZENE
20U (M- AND/OR P-)XYLENE
20U O-XYLENE
20U STYRENE
20U BROMOFORM
20U BROMOBENZENE
20U 1,1,2,2-TETRACHLOROETHANE
20U 1,2,3-TRICHLOROPROPANE
20U O-CHLOROTOLUENE
20U P-CHLOROTOLUENE
20U 1,3-DICHLOROBENZENE
20U 1,4-DICHLOROBENZENE
20U 1,2-DICHLOROBENZENE
23.0 PERCENT MOISTURE

REMARKS

***REMARKS- **

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM*****

DATE: 10/11/88

SUBJECT: Results of Pesticide/PCB Analysis;
88-607 CONE MILLS-WHITE OAK
GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **
** ** ** ** ** ** ** ** ** ** ** ** ** **

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.029U	ALDRIN	0.72U	PCB-1232 (AROCLOR 1232)
0.017U	HEPTACHLOR	0.72U	PCB-1248 (AROCLOR 1248)
0.022U	HEPTACHLOR EPOXIDE	0.44U	PCB-1260 (AROCLOR 1260)
0.025U	ALPHA-BHC	0.72U	PCB-1016 (AROCLOR 1016)
0.037U	BETA-BHC	2.1U	TOXAPHENE
0.024U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.050U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.026U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.033U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.048U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.031U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.054U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.029U	ENDRIN	--	ALPHA-CHLORDANE /2
0.039U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.054U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.027U	CHLORDANE (TECH. MIXTURE) /1	0.069U	METHOXYCHLOR
0.72U	PCB-1242 (AROCLOR 1242)	0.074U	ENDRIN KETONE
0.44U	PCB-1254 (AROCLOR 1254)		
0.72U	PCB-1221 (AROCLOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607   SAMPLE NO. 29092   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88   1130   STOP: 00/00/00   **
** ** ** **

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.063U	ALDRIN	0.69U	PCB-1232 (AROCOR 1232)
0.016U	HEPTACHLOR	0.69U	PCB-1248 (AROCOR 1248)
0.021U	HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCOR 1260)
0.028U	ALPHA-BHC	0.69U	PCB-1016 (AROCOR 1016)
0.035U	BETA-BHC	2.1U	TOXAPHENE
0.027U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.051J	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.023U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.031U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.048U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.049U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.055U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.035U	ENDRIN	--	ALPHA-CHLORDANE /2
0.042U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.052U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.28U	CHLORDANE (TECH. MIXTURE) /1	0.083U	METHOXYCHLOR
0.69U	PCB-1242 (AROCOR 1242)	0.078U	ENDRIN KETONE
0.41U	PCB-1254 (AROCOR 1254)		
0.69U	PCB-1221 (AROCOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607   SAMPLE NO. 29094   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88   1215   STOP: 00/00/00   **
** ** ** **

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.049U	ALDRIN	0.80U	PCB-1232 (AROCLOR 1232)
0.018U	HEPTACHLOR	0.80U	PCB-1248 (AROCLOR 1248)
0.019U	HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCLOR 1260)
0.050U	ALPHA-BHC	0.80U	PCB-1016 (AROCLOR 1016)
0.039U	BETA-BHC	2.1U	TOXAPHENE
0.048U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.051U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.026U	ENDOSULFAN I (ALPHA)	--	BETA-CHLORDENE /2
0.035U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.046U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.050U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.057U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.039U	ENDRIN	--	ALPHA-CHLORDANE /2
0.045U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.045U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.27U	CHLORDANE (TECH. MIXTURE) /1	0.065U	METHOXYCHLOR
0.80U	PCB-1242 (AROCLOR 1242)	0.071U	ENDRIN KETONE
0.41U	PCB-1254 (AROCLOR 1254)		
0.80U	PCB-1221 (AROCLOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/10/88

PESTICIDES/PCB'S DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607   SAMPLE NO. 29096   SAMPLE TYPE: BLKWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: TB-01 TRIP BLANK   COLLECTION START: 08/22/88   1245   STOP: 00/00/00   **
** ** ** **

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.021U	ALDRIN	0.53U	PCB-1232 (AROCOR 1232)
0.014U	HEPTACHLOR	0.53U	PCB-1248 (AROCOR 1248)
0.018U	HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCOR 1260)
0.025U	ALPHA-BHC	0.53U	PCB-1016 (AROCOR 1016)
0.031U	BETA-BHC	2.1U	TOXAPHENE
0.024U	GAMMA-BHC (LINDANE)	--	CHLORDENE /2
0.030U	DELTA-BHC	--	ALPHA-CHLORDENE /2
0.019U	ENDOSULFAN I (ALPHA)	--	BETA CHLORDENE /2
0.033U	DIELDRIN	--	GAMMA-CHLORDENE /2
0.046U	4,4'-DDT (P,P'-DDT)	--	1-HYDROXYCHLORDENE /2
0.031U	4,4'-DDE (P,P'-DDE)	--	GAMMA-CHLORDANE /2
0.044U	4,4'-DDD (P,P'-DDD)	--	TRANS-NONACHLOR /2
0.039U	ENDRIN	--	ALPHA-CHLORDANE /2
0.035U	ENDOSULFAN II (BETA)	--	CIS-NONACHLOR /2
0.061U	ENDOSULFAN SULFATE	--	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.18U	CHLORDANE (TECH. MIXTURE) /1	0.065U	METHOXYCHLOR
0.53U	PCB-1242 (AROCOR 1242)	0.071U	ENDRIN KETONE
0.41U	PCB-1254 (AROCOR 1254)		
0.53U	PCB-1221 (AROCOR 1221)		

REMARKS

REMARKS

FOOTNOTES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM*****

DATE: 10/04/88

SUBJECT: Results of Extractable Organic Analysis;
88-607 CONE MILLS-WHITE OAK
GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607   SAMPLE NO. 29090   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-01 N BUFFALO CK UPGRAD   COLLECTION START: 08/22/88 1025   STOP: 00/00/00   **
** ** ** **
  
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UG/L	ANALYTICAL RESULTS
10U	BIS(2-CHLOROETHYL) ETHER
10U	BIS(2-CHLOROISOPROPYL) ETHER
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	BIS(2-CHLOROETHOXY) METHANE
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2-CHLORONAPHTHALENE
10U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE
10U	3-NITROANILINE
10U	ACENAPHTHENE
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	FLUORENE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	4-NITROANILINE
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
10U	PHENANTHRENE
10U	ANTHRACENE
10U	DI-N-BUTYLPHTHALATE

UG/L	ANALYTICAL RESULTS
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOBENZIDINE
10U	BENZO(A)ANTHRACENE
10U	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE
10U	PHENOL
10U	2-CHLOROPHENOL
20U	BENZYL ALCOHOL
10U	2-METHYLPHENOL
10U	(3-AND/OR 4-)METHYLPHENOL
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
20U	BENZOIC ACID
10U	2,4-DICHLOROPHENOL
10U	4-CHLORO-3-METHYLPHENOL
10U	2,4,6-TRICHLOROPHENOL
10U	2,4,5-TRICHLOROPHENOL
20U	2,4 DINITROPHENOL
20U	4-NITROPHENOL
10U	2,3,4,6-TETRACHLOROPHENOL
20U	2-METHYL-4,6-DINITROPHENOL
20U	PENTACHLOROPHENOL

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607      SAMPLE NO. 29091  SAMPLE TYPE: SEDIM  PROG ELEM: NSF  COLLECTED BY: A SPAUGH  **
** SOURCE: CONE MILLS-WHITE OAK  CITY: GREENSBORO  ST: NC  **
** STATION ID: SD-01 N BUFFALO CK UPGRAD  COLLECTION START: 08/22/88  1030  STOP: 00/00/00  **
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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1600U	BIS(2-CHLOROETHYL) ETHER	430J	FLUORANTHENE
1600U	BIS(2-CHLOROISOPROPYL) ETHER	390J	PYRENE
1600U	N-NITROSODI-N-PROPYLAMINE	1600U	BENZYL BUTYL PHTHALATE
1600U	HEXACHLOROETHANE	1600U	3,3'-DICHLOROBENZIDINE
1600U	NITROBENZENE	210J	BENZO(A)ANTHRACENE
1600U	ISOPHORONE	270J	CHRYSENE
1600U	BIS(2-CHLOROETHOXY) METHANE	1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	1,2,4-TRICHLOROBENZENE	1600U	DI-N-OCTYLPHTHALATE
1600U	NAPHTHALENE	1600U	BENZO(B AND/OR K)FLUORANTHENE
1600U	4-CHLOROANILINE	1600U	BENZO-A-PYRENE
1600U	HEXACHLOROBUTADIENE	1600U	INDENO (1,2,3-CD) PYRENE
1600U	2-METHYLNAPHTHALENE	1600U	DIBENZO(A,H)ANTHRACENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)	1600U	BENZO(GHI)PERYLENE
1600U	2-CHLORONAPHTHALENE	1600U	PHENOL
1600U	2-NITROANILINE	1600U	2-CHLOROPHENOL
1600U	DIMETHYL PHTHALATE	3200U	BENZYL ALCOHOL
1600U	ACENAPHTHYLENE	1600U	2-METHYLPHENOL
1600U	2,6-DINITROTOLUENE	1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	3-NITROANILINE	1600U	2-NITROPHENOL
1600U	ACENAPHTHENE	1600U	2,4-DIMETHYLPHENOL
1600U	DIBENZOFURAN	3200U	BENZOIC ACID
1600U	2,4-DINITROTOLUENE	1600U	2,4-DICHLOROPHENOL
1600U	DIETHYL PHTHALATE	1600U	4-CHLORO-3-METHYLPHENOL
1600U	FLUORENE	1600U	2,4,6-TRICHLOROPHENOL
1600U	4-CHLOROPHENYL PHENYL ETHER	1600U	2,4,5-TRICHLOROPHENOL
1600U	4-NITROANILINE	3200U	2,4 DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	3200U	4-NITROPHENOL
1600U	4-BROMOPHENYL PHENYL ETHER	1600U	2,3,4,6-TETRACHLOROPHENOL
1600U	HEXACHLOROBENZENE (HCB)	3200U	2-METHYL-4,6-DINITROPHENOL
300J	PHENANTHRENE	3200U	PENTACHLOROPHENOL
1600U	ANTHRACENE	29	PERCENT MOISTURE
1600U	DI-N-BUTYLPHTHALATE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 88-607 SAMPLE NO. 29092 SAMPLE TYPE: AMBWA
*** SOURCE: CONE MILLS-WHITE OAK
*** STATION ID: SW-02 N BUFFALO CK MIDSTREAM

PROG ELEM: NSF COLLECTED BY: A SPAUGH
CITY: GREENSBORO ST: NC
COLLECTION START: 08/22/88 1130 STOP: 00/00/00

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/L

10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLORISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
10U HEXACHLOROETHANE
10U NITROBENZENE
10U ISOPHORONE
10U BIS(2-CHLOROETHOXY) METHANE
10U 1,2,4-TRICHLOROBENZENE
10U NAPHTHALENE
10U 4-CHLOROANILINE
10U HEXACHLOROBUTADIENE
10U 2-METHYLNAPHTHALENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 2-CHLORONAPHTHALENE
10U 2-NITROANILINE
10U DIMETHYL PHTHALATE
10U ACENAPHTHYLENE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
10U FLUORENE
10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-BROMOPHENYL PHENYL ETHER
10U HEXACHLOROBENZENE (HCB)
10U PHENANTHRENE
10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE

10U FLUORANTHENE
10U PYRENE
10U BENZYL BUTYL PHTHALATE
10U 3,3'-DICHLOROBENZIDINE
10U BENZO(A)ANTHRACENE
10U CHRYSENE
10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
10U INDENO (1,2,3-CD) PYRENE
10U DIBENZO(A,H)ANTHRACENE
10U BENZO(GH)PERYLENE
10U PHENOL
10U 2-CHLOROPHENOL
20U BENZYL ALCOHOL
10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
20U BENZOIC ACID
10U 2,4-DICHLOROPHENOL
10U 4-CHLORO-3-METHYLPHENOL
10U 2,4,6-TRICHLOROPHENOL
10U 2,4,5-TRICHLOROPHENOL
20U 2,4-DINITROPHENOL
20U 4-NITROPHENOL
20U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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*** **
** PROJECT NO. 88-607   SAMPLE NO. 29093   SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM   COLLECTION START: 08/22/88   1135   STOP: 00/00/00   **
** **

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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1600U	BIS(2-CHLOROETHYL) ETHER	1200J	FLUORANTHENE
1600U	BIS(2-CHLOROISOPROPYL) ETHER	960J	PYRENE
1600U	N-NITROSODI-N-PROPYLAMINE	1600U	BENZYL BUTYL PHTHALATE
1600U	HEXACHLOROETHANE	1600U	3,3'-DICHLOROBENZIDINE
1600U	NITROBENZENE	650J	BENZO(A)ANTHRACENE
1600U	ISOPHORONE	650J	CHRYSENE
1600U	BIS(2-CHLOROETHOXY) METHANE	310J	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	1,2,4-TRICHLOROBENZENE	1600U	DI-N-OCTYLPHTHALATE
1600U	NAPHTHALENE	1110J	BENZO(B AND/OR K)FLUORANTHENE
1600U	4-CHLOROANILINE	630J	BENZO-A-PYRENE
1600U	HEXACHLOROBUTADIENE	1600U	INDENO (1,2,3-CD) PYRENE
1600U	2-METHYLNAPHTHALENE	1600U	DIBENZO(A,H)ANTHRACENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)	1600U	BENZO(GHI)PERYLENE
1600U	2-CHLORONAPHTHALENE	1600U	PHENOL
1600U	2-NITROANILINE	1600U	2-CHLOROPHENOL
1600U	DIMETHYL PHTHALATE	3200U	BENZYL ALCOHOL
1600U	ACENAPHTHYLENE	1600U	2-METHYLPHENOL
1600U	2,6-DINITROTOLUENE	1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	3-NITROANILINE	1600U	2-NITROPHENOL
1600U	ACENAPHTHENE	1600U	2,4-DIMETHYLPHENOL
1600U	DIBENZOFURAN	3200U	BENZOIC ACID
1600U	2,4-DINITROTOLUENE	1600U	2,4-DICHLOROPHENOL
1600U	DIETHYL PHTHALATE	1600U	4-CHLORO-3-METHYLPHENOL
1600U	FLUORENE	1600U	2,4,6-TRICHLOROPHENOL
1600U	4-CHLOROPHENYL PHENYL ETHER	1600U	2,4,5-TRICHLOROPHENOL
1600U	4-NITROANILINE	3200U	2,4 DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	3200U	4-NITROPHENOL
1600U	4-BROMOPHENYL PHENYL ETHER	1600U	2,3,4,6-TETRACHLOROPHENOL
1600U	HEXACHLOROBENZENE (HCB)	3200U	2-METHYL-4,6-DINITROPHENOL
1200J	PHENANTHRENE	3200U	PENTACHLOROPHENOL
300J	ANTHRACENE	24	PERCENT MOISTURE
1600U	DI-N-BUTYLPHTHALATE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607      SAMPLE NO. 29094  SAMPLE TYPE: AMBWA  PROG ELEM: NSF  COLLECTED BY: A SPAUGH  **
** SOURCE: CONE MILLS-WHITE OAK  CITY: GREENSBORO  ST: NC  **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD  COLLECTION START: 08/22/88 1215  STOP: 00/00/00  **
** ** ** **

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	BIS(2-CHLOROETHYL) ETHER	10U	FLUORANTHENE
10U	BIS(2-CHLOROISOPROPYL) ETHER	10U	PYRENE
10U	N-NITROSODI-N-PROPYLAMINE	10U	BENZYL BUTYL PHTHALATE
10U	HEXACHLOROETHANE	10U	3,3'-DICHLOROBENZIDINE
10U	NITROBENZENE	10U	BENZO(A)ANTHRACENE
10U	ISOPHORONE	10U	CHRYSENE
10U	BIS(2-CHLOROETHOXY) METHANE	10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	1,2,4-TRICHLOROBENZENE	10U	DI-N-OCTYLPHTHALATE
10U	NAPHTHALENE	10U	BENZO(B AND/OR K)FLUORANTHENE
10U	4-CHLOROANILINE	10U	BENZO-A-PYRENE
10U	HEXACHLOROBUTADIENE	10U	INDENO (1,2,3-CD) PYRENE
10U	2-METHYLNAPHTHALENE	10U	DIBENZO(A,H)ANTHRACENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)	10U	BENZO(GHI)PERYLENE
10U	2-CHLORONAPHTHALENE	10U	PHENOL
10U	2-NITROANILINE	10U	2-CHLOROPHENOL
10U	DIMETHYL PHTHALATE	20U	BENZYL ALCOHOL
10U	ACENAPHTHYLENE	10U	2-METHYLPHENOL
10U	2,6-DINITROTOLUENE	10U	(3-AND/OR 4-)METHYLPHENOL
10U	3-NITROANILINE	10U	2-NITROPHENOL
10U	ACENAPHTHENE	10U	2,4-DIMETHYLPHENOL
10U	DIBENZOFURAN	20U	BENZOIC ACID
10U	2,4-DINITROTOLUENE	10U	2,4-DICHLOROPHENOL
10U	DIETHYL PHTHALATE	10U	4-CHLORO-3-METHYLPHENOL
10U	FLUORENE	10U	2,4,6-TRICHLOROPHENOL
10U	4-CHLOROPHENYL PHENYL ETHER	10U	2,4,5-TRICHLOROPHENOL
10U	4-NITROANILINE	20U	2,4-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	20U	4-NITROPHENOL
10U	4-BROMOPHENYL PHENYL ETHER	10U	2,3,4,6-TETRACHLOROPHENOL
10U	HEXACHLOROBENZENE (HCB)	20U	2-METHYL-4,6-DINITROPHENOL
10U	PHENANTHRENE	20U	PENTACHLOROPHENOL
10U	ANTHRACENE		
10U	DI-N-BUTYLPHTHALATE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

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*** ** ** ** **
**  PROJECT NO. 88-607   SAMPLE NO. 29095  SAMPLE TYPE: SEDIM   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
**  SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
**  STATION ID: SD-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88 1220   STOP: 00/00/00   **
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UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1600U	BIS(2-CHLOROETHYL) ETHER	5100	FLUORANTHENE
1600U	BIS(2-CHLOROISOPROPYL) ETHER	4400	PYRENE
1600U	N-NITROSODI-N-PROPYLAMINE	1600U	BENZYL BUTYL PHTHALATE
1600U	HEXACHLOROETHANE	1600U	3,3'-DICHLOROBENZIDINE
1600U	NITROBENZENE	2800	BENZO(A)ANTHRACENE
1600U	ISOPHORONE	3000	CHRYSENE
1600U	BIS(2-CHLOROETHOXY) METHANE	1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	1,2,4-TRICHLOROBENZENE	1600U	DI-N-OCTYLPHTHALATE
1600U	NAPHTHALENE	5600	BENZO(B AND/OR K)FLUORANTHENE
1600U	4-CHLOROANILINE	2800	BENZO-A-PYRENE
1600U	HEXACHLOROBUTADIENE	1600	INDENO (1,2,3-CD) PYRENE
1600U	2-METHYLNAPHTHALENE	1600U	DIBENZO(A,H)ANTHRACENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)	1500J	BENZO(GHI)PERYLENE
1600U	2-CHLORONAPHTHALENE	1600U	PHENOL
1600U	2-NITROANILINE	1600U	2-CHLOROPHENOL
1600U	DIMETHYL PHTHALATE	3100U	BENZYL ALCOHOL
120J	ACENAPHTHYLENE	1600U	2-METHYLPHENOL
1600U	2,6-DINITROTOLUENE	1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	3-NITROANILINE	1600U	2-NITROPHENOL
1600U	ACENAPHTHENE	1600U	2,4-DIMETHYLPHENOL
1600U	DIBENZOFURAN	3100U	BENZOIC ACID
1600U	2,4-DINITROTOLUENE	1600U	2,4-DICHLOROPHENOL
1600U	DIETHYL PHTHALATE	1600U	4-CHLORO-3-METHYLPHENOL
1600U	FLUORENE	1600U	2,4,6-TRICHLOROPHENOL
1600U	4-CHLOROPHENYL PHENYL ETHER	1600U	2,4,5-TRICHLOROPHENOL
1600U	4-NITROANILINE	3100U	2,4 DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	3100U	4-NITROPHENOL
1600U	4-BROMOPHENYL PHENYL ETHER	1600U	2,3,4,6-TETRACHLOROPHENOL
1600U	HEXACHLOROBENZENE (HCB)	3100U	2-METHYL-4,6-DINITROPHENOL
3000	PHENANTHRENE	3100U	PENTACHLOROPHENOL
400J	ANTHRACENE	23	PERCENT MOISTURE
1600U	DI-N-BUTYLPHTHALATE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

EXTRACTABLE ORGANICS DATA REPORT

*** ** ** ** **
** PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE TYPE: BLKWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: TB-01 TRIP BLANK COLLECTION START: 08/22/88 1245 STOP: 00/00/00 **
** ** ** **

UG/L ANALYTICAL RESULTS

10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLOROISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
10U HEXACHLOROETHANE
10U NITROBENZENE
10U ISOPHORONE
10U BIS(2-CHLOROETHOXY) METHANE
10U 1,2,4-TRICHLOROBENZENE
10U NAPHTHALENE
10U 4-CHLOROANILINE
10U HEXACHLOROBUTADIENE
10U 2-METHYLNAPHTHALENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)
10U 2-CHLORONAPHTHALENE
10U 2-NITROANILINE
10U DIMETHYL PHTHALATE
10U ACENAPHTHYLENE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
10U FLUORENE
10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 4-BROMOPHENYL PHENYL ETHER
10U HEXACHLOROBENZENE (HCB)
10U PHENANTHRENE
10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE

UG/L ANALYTICAL RESULTS

10U FLUORANTHENE
10U PYRENE
10U BENZYL BUTYL PHTHALATE
10U 3,3'-DICHLOROBENZIDINE
10U BENZO(A)ANTHRACENE
10U CHRYSENE
10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
10U INDENO (1,2,3-CD) PYRENE
10U DIBENZO(A,H)ANTHRACENE
10U BENZO(GHI)PERYLENE
10U PHENOL
10U 2-CHLOROPHENOL
20U BENZYL ALCOHOL
10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
20U BENZOIC ACID
10U 2,4-DICHLOROPHENOL
10U 4-CHLORO-3-METHYLPHENOL
10U 2,4,6-TRICHLOROPHENOL
10U 2,4,5-TRICHLOROPHENOL
20U 2,4 DINITROPHENOL
20U 4-NITROPHENOL
10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **
** **

RESULTS UNITS COMPOUND
20J UG/L 1 UNIDENTIFIED COMPOUND

RESULTS UNITS COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1135 STOP: 00/00/00 **
*** **

RESULTS UNITS COMPOUND
300JN UG/KG BENZOFLUORANTHENE (NOT B AND/OR K)

RESULTS UNITS COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

```

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SD-03 N BUFFALO CK DOWNGRAD COLLECTION START: 08/22/88 1220 STOP: 00/00/00 **
** **
*** **

```

RESULTS	UNITS	COMPOUND
200JN	UG/KG	CARBAZOLE
400JN	UG/KG	CYCLOPENTAPHENANTHRENE
300JN	UG/KG	BENZONAPHTHOFURAN (2 ISOMERS)
700JN	UG/KG	BENZANTHRACENONE (2 ISOMERS)
600JN	UG/KG	TRIPHENYLENE
900JN	UG/KG	METHYLBENZANTHRACENE (3 ISOMERS)

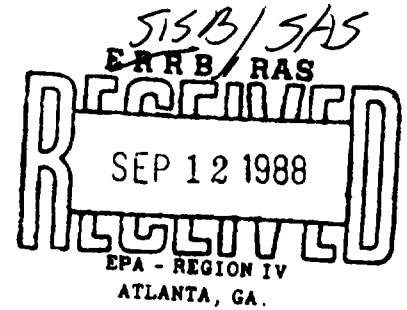
RESULTS	UNITS	COMPOUND
400JN	UG/KG	METHYLPHENANTHRENE (2 ISOMERS)
300JN	UG/KG	PHENANTHRENE DIONE
1000JN	UG/KG	METHYLFLUORANTHENE (4 ISOMERS)
400JN	UG/KG	BENZONAPHTHOTHIOPHENE
3000JN	UG/KG	BENZOFLUORANTHENE (3 ISOMERS) (NOT B OR K)

FOOTNOTES

- *A-AVERAGE VALUE *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 09/01/88

SUBJECT: Results of Purgeable Organic Analysis;
88-607 CONE MILLS-WHITE OAK
GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

08/31/88

PURGEABLE ORGANICS DATA REPORT

```

*** * * * *
** PROJECT NO. 88-607   SAMPLE NO. 29096   SAMPLE TYPE: BLKWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: TB-01 TRIP BLANK   COLLECTION START: 08/22/88 1245   STOP: 00/00/00   **
** * * * * *
  
```

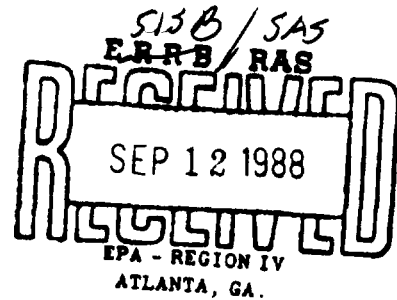
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
5.0U	VINYL CHLORIDE	50U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	0.99J	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
50U	CARBON DISULFIDE	50U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	10U	1,1,1,2-TETRACHLOROETHANE
50U	VINYL ACETATE	5.0U	ETHYL BENZENE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	(M- AND/OR P-)XYLENE
5.0U	2,2-DICHLOROPROPANE	5.0U	O-XYLENE
28J	METHYL ETHYL KETONE	10U	STYRENE
5.0U	BROMOCHLOROMETHANE	5.0U	BROMOFORM
5.0U	CHLOROFORM	10U	BROMOBENZENE
5.0U	1,1,1-TRICHLOROETHANE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,1-DICHLOROPROPENE	10U	1,2,3-TRICHLOROPROPANE
5.0U	CARBON TETRACHLORIDE	10U	O-CHLOROTOLUENE
5.0U	1,2-DICHLOROETHANE	10U	P-CHLOROTOLUENE
5.0U	BENZENE	10U	1,3-DICHLOROBENZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)	10U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	10U	1,2-DICHLOROBENZENE
5.0U	DIBROMOMETHANE		
5.0U	BROMODICHLOROMETHANE		

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 09/02/88

SUBJECT: Results of Purgeable Organic Analysis;
88-607 CONE MILLS-WHITE OAK
GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-01 N BUFFALO CK UPGRAD COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **
** **

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
5.0U	VINYL CHLORIDE	50U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	1.5J	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
50U	CARBON DISULFIDE	50U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	10U	1,1,1,2-TETRACHLOROETHANE
50U	VINYL ACETATE	5.0U	ETHYL BENZENE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	(M- AND/OR P-)XYLENE
5.0U	2,2-DICHLOROPROPANE	5.0U	O-XYLENE
50U	METHYL ETHYL KETONE	10U	STYRENE
5.0U	BROMOCHLOROMETHANE	5.0U	BROMOFORM
5.0U	CHLOROFORM	10U	BROMOBENZENE
5.0U	1,1,1-TRICHLOROETHANE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,1-DICHLOROPROPENE	10U	1,2,3-TRICHLOROPROPANE
5.0U	CARBON TETRACHLORIDE	10U	O-CHLOROTOLUENE
5.0U	1,2-DICHLOROETHANE	10U	P-CHLOROTOLUENE
5.0U	BENZENE	10U	1,3-DICHLOROBENZENE
5.0U	TRICHLOROETHENE(1,1,2-TRICHLOROETHYLENE)	10U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	10U	1,2-DICHLOROBENZENE
5.0U	DIBROMOMETHANE		
5.0U	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

*** **
** PROJECT NO. 88-607 SAMPLE NO. 29092 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM COLLECTION START: 08/22/88 1130 STOP: 00/00/00 **
*** **

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
50U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
50U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
1.0J	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
5.0U	TRICHLOROETHFNF(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
50U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENF)
5.0U	1,3-DICHLOROPROPANE
50U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
10U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
10U	STYRENE
5.0U	BROMOFORM
10U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
10U	1,2,3-TRICHLOROPROPANE
10U	O-CHLOROTOLUENE
10U	P-CHLOROTOLUENE
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

09/01/88

PURGEABLE ORGANICS DATA REPORT

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*** ** ** ** **
** PROJECT NO. 88-607   SAMPLE NO. 29094   SAMPLE TYPE: AMBWA   PROG ELEM: NSF   COLLECTED BY: A SPAUGH   **
** SOURCE: CONE MILLS-WHITE OAK   CITY: GREENSBORO   ST: NC   **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD   COLLECTION START: 08/22/88 1215   STOP: 00/00/00   **
** ** ** **

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UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE	5.0U	CIS-1,3-DICHLOROPROPENE
5.0U	VINYL CHLORIDE	50U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	5.0U	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1,1,2-TRICHLOROETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
50U	ACETONE	5.0U	1,3-DICHLOROPROPANE
50U	CARBON DISULFIDE	50U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1,2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1,1-DICHLOROETHANE	10U	1,1,1,2-TETRACHLOROETHANE
50U	VINYL ACETATE	5.0U	ETHYL BENZENE
5.0U	CIS-1,2-DICHLOROETHENE	5.0U	(M- AND/OR P-)XYLENF
5.0U	2,2-DICHLOROPROPANE	5.0U	O-XYLENE
50U	METHYL ETHYL KETONE	10U	STYRENE
5.0U	BROMOCHLOROMETHANE	5.0U	BROMOFORM
0.89J	CHLOROFORM	10U	BROMOBENZENE
5.0U	1,1,1-TRICHLOROETHANE	5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,1-DICHLOROPROPENE	10U	1,2,3-TRICHLOROPROPANE
5.0U	CARBON TETRACHLORIDE	10U	O-CHLOROTOLUENE
5.0U	1,2-DICHLOROETHANE	10U	P-CHLOROTOLUENE
5.0U	BENZENE	10U	1,3-DICHLOROBENZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)	10U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROPROPANE	10U	1,2-DICHLOROBENZENE
5.0U	DIBROMOMETHANE		
5.0U	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710

Robert

C-586-8-8-54

August 5, 1988

Mr. Narindar Kumar
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Site Screening Study Plan
Revision 0
Cone Mills Corporation, White Oak Plant
Greensboro, Guilford County, North Carolina
TDD No. F4-8803-57

Dear Mr. Kumar:

Enclosed please find one (1) copy of the Site Screening Study Plan, Revision 0, for Cone Mills Corporation, White Oak Plant, Greensboro, Guilford County, North Carolina.

Please contact me if you have any questions concerning this study plan.

Very truly yours,

A handwritten signature in cursive script that reads "Douglas M. Chatham".

Douglas M. Chatham
Project Manager

Approved:

A handwritten signature in cursive script that reads "Greg Schank".

DMC/tb

Enclosure (1)

**STUDY PLAN
SITE SCREENING INVESTIGATION
CONE MILLS CORPORATION, WHITE OAK PLANT
GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA
EPA ID #: NCD000776914**

Prepared Under
TDD No. F4-8803-57
CONTRACT NO. 68-01-7346

Revision 0

FOR THE

**WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY**


AUGUST 4, 1988

**NUS CORPORATION
SUPERFUND DIVISION**

Prepared By

Reviewed By

Approved By


Douglas M. Chatham
Project Manager


Phil Blackwell
Assistant Regional
Project Manager


Murray Warner, P.E.
Regional Project Manager

NOTICE

The information in this document has been funded wholly by the United States Environmental Protection Agency (EPA) under Contract Number 68-01-7346 and is considered proprietary to the EPA.

This information is not to be released to third parties without the expressed or written consent of the EPA.

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STUDY PLAN
SITE SCREENING INVESTIGATION
CONE MILLS CORPORATION, WHITE OAK PLANT
GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA
EPA ID #NCD000776914
TDD NO. F4-8803-57

1.0 INTRODUCTION

The NUS Corporation Region IV Field Investigation Team (FIT) has been tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a site screening investigation (SSI) at the Cone Mills Corporation, White Oak Plant facility in Guilford County, North Carolina. The investigation will be performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task will be performed to satisfy the requirements stated in Technical Directive Document (TDD) number F4-8803-57.

1.1 Objectives

The objectives of this sampling investigation are to collect information to assist in developing a site-specific preliminary HRS score and to determine if further investigation is required at this site.

Specific elements are:

- Obtain information to prepare a site specific preliminary HRS
- Provide EPA the necessary information to make decisions on any other actions warranted at the site.

1.2 Scope of Work

The scope of this investigation will include the following activities:

- Obtain and review background materials relevant to HRS scoring of site
- Obtain aerial photographs and maps of site, if possible
- Obtain information on local water systems
- Evaluate target population within a 4-mile radius of the site with regard to groundwater use, surface water use, and possibility of direct contact or fire and explosion hazard
- Conduct a survey of private wells
- Develop a site sketch to scale
- Collect up to 12 environmental samples consisting of surface soil, subsurface soil, surface water sediment and groundwater sample

1.3 Schedule

To be determined

1.4 Personnel

Project Manager - Douglas M. Chatham

Other personnel as required

1.5 Permits and Authorization Requirements

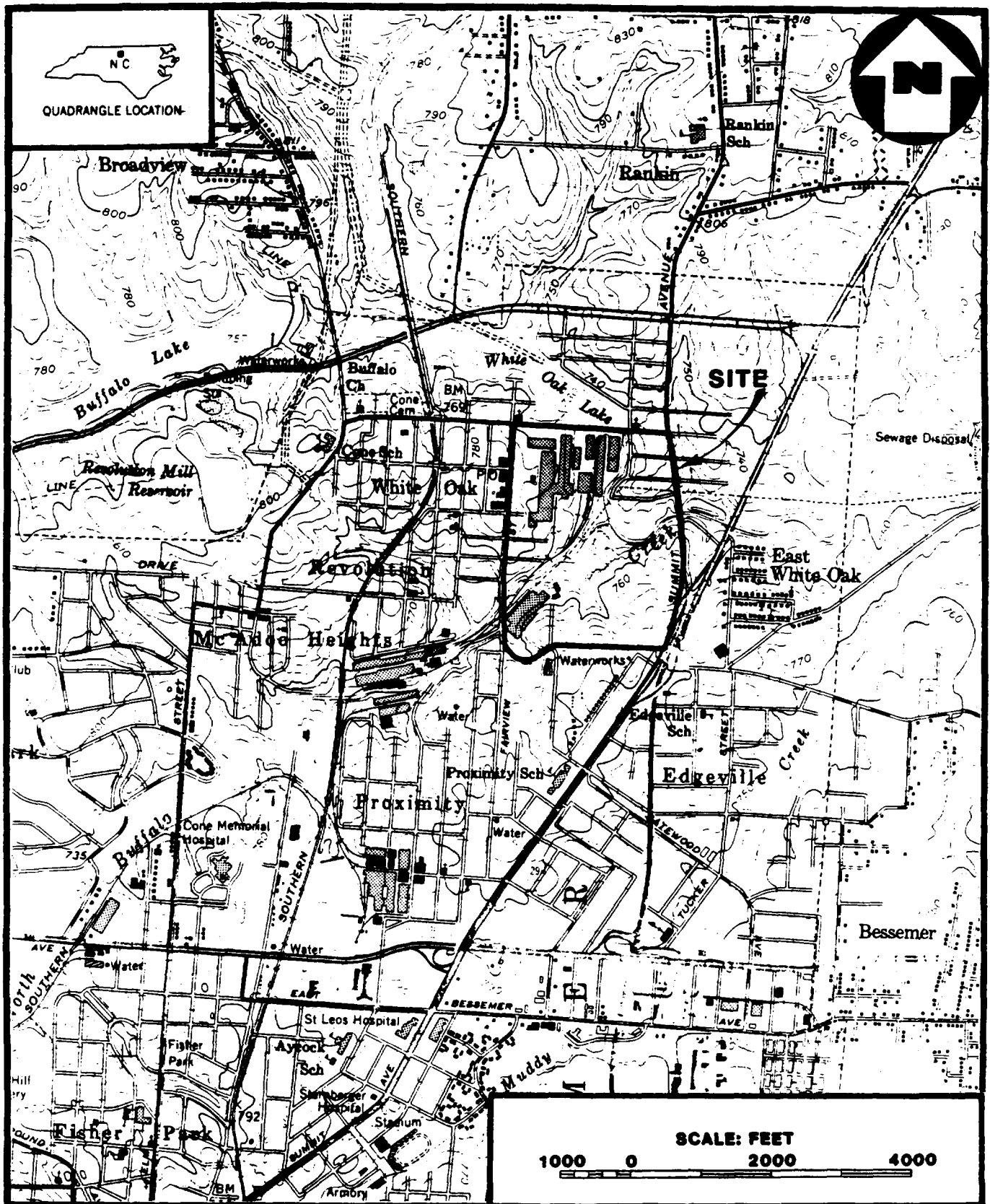
EPA is responsible for obtaining access to the site and permission to take photographs of site. In addition, EPA is responsible for all permits which may be required to accomplish this task.

1.6 Site History and Description

Cone Mills' White Oak Plant is located inside the Greensboro city limits in Guilford County, North Carolina (Refs. 1, 2). The site location is shown in Figure 1-1 and the site layout is shown in Figure 1-2. The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 3,4). Since at least 1973, the plant has produced textiles, from the fiber phase through finishing of broad woven fabric (Refs. 5,6). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 7). In 1981, 15 gallons of waste solvent per week were generated and subsequently discharged to the plant's wastewater treatment system. At that time, the facility had an NPDES permit; permit conditions apparently had been violated in 1973 or 1974 (Ref. 5). Dye wastes (possibly containing metals) and/or solvents may have been disposed of onsite through burial and/or land application (Refs. 1, 8). The North Carolina Department of Natural Resources and Community Development found indications of onsite contamination in the plant and creek areas (Ref. 8). Hazardous wastes from other Cone Mills plants were apparently stored at the White Oak Plant (Ref. 9). Materials used to clean up a small PCB spill at Cone Mills' Salisbury Plant were stored temporarily at the White Oak Plant (Ref. 10).

Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility (containers and tanks) and reported its wastes as 24,000 pounds per year of ignitable wastes (Ref. 1). The facility's status was changed from generator and storer to generator only in 1983, and its interim status was withdrawn (Refs. 11, 12). Its status was changed to small quantity generator in 1985 (Ref. 13).

Access to the site is limited by fences, gates, and security personnel. The surrounding area is primarily residential. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately 1-mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 3, 4).

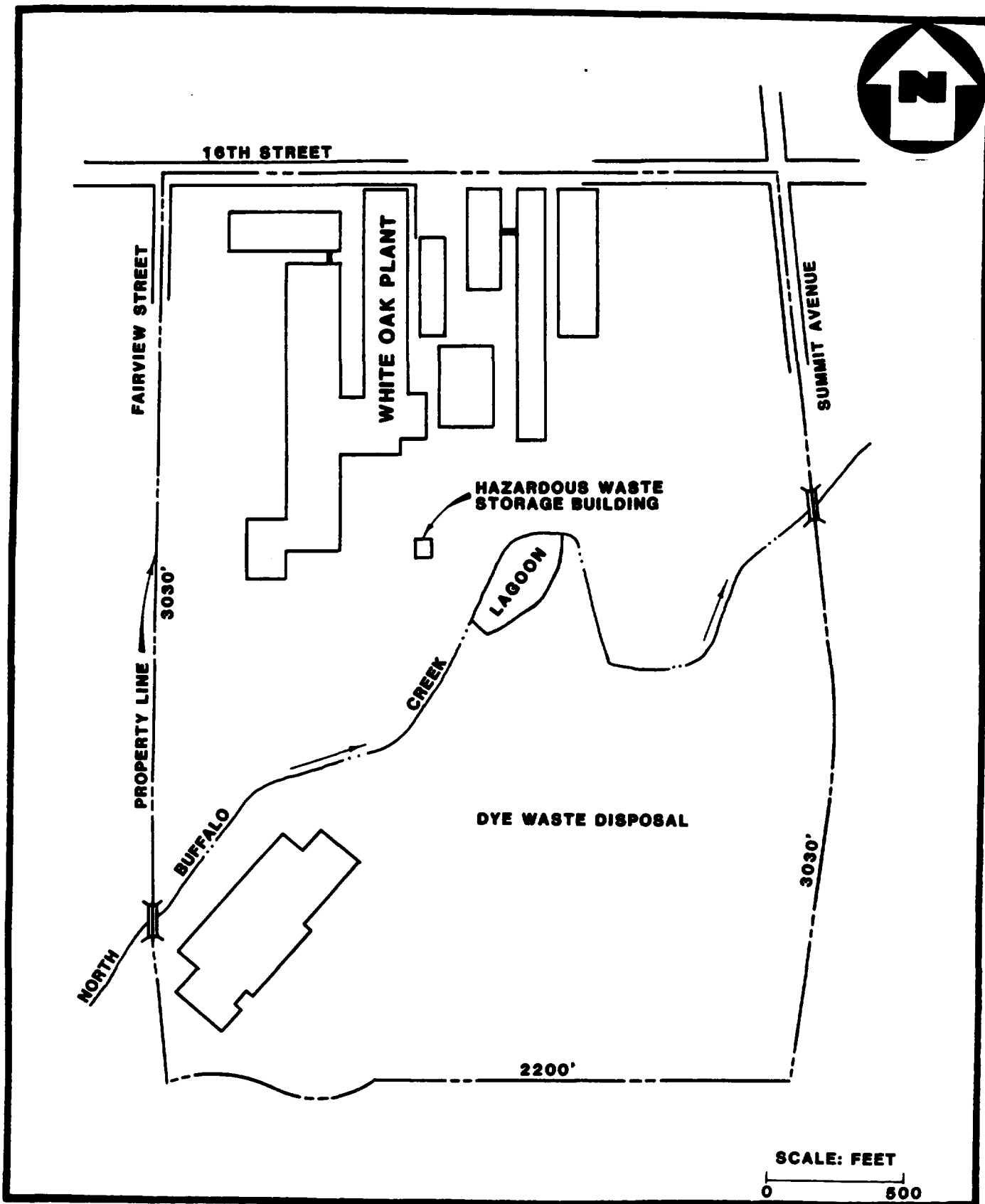


BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE GREENSBORO, NORTH CAROLINA, 1968.

**SITE LOCATION MAP
CONE MILLS CORPORATION
GREENSBORO, (GUILFORD COUNTY)
NORTH CAROLINA**

FIGURE 1-1





**SITE LAYOUT MAP
CONE MILLS CORPORATION
GREENSBORO, (GUILFORD COUNTY)
NORTH CAROLINA**

FIGURE 1-2

1.7 Regional Hydrogeology

The Cone Mills Corporation, White Oak Plant is located within the Piedmont Physiographic Province. The area is characterized by gently rolling topography with elevations ranging between 740 and 900 feet above mean sea level (amsl) (Refs. 4, 14). Soils consist of a well drained, sandy clay loam (Ref. 15). The area is underlain by metamorphosed granitic rock (Ref. 16).

The metamorphosed granitic rock and the saturated regolith (weathered rock) overlying it both form the Crystalline Rock aquifer. The crystalline rocks have very low permeability. Large well yields depend on the interception of water-bearing fracture systems overlain by saturated regolith. Sustained yields depend on the thickness of the saturated regolith. The average yield of wells is from 10 to 25 gallons per minute (gpm); however, some wells may yield more than 200 gpm (Ref. 17). The average depth to the water table in this Piedmont area is approximately 15 feet (Ref. 24).

Most of the area within a 3-mile radius of the White Oak Plant lies within the service area boundaries of the Guilford County Water Department (Refs. 4, 18). Guilford County obtains its water supply from Lakes Townsend, Higgins, and Brandt, located more than 4 miles north/northwest of the site (Refs. 4, 19); the lakes are not located on the surface water migration pathway. Nearly the entire population within the city limits of Greensboro (Ref. 2) utilizes the county water system. Residents within the county's service areas but outside the city limits are not required to hook up to the county's water lines. Groundwater wells in the Greensboro area are generally at least 150 feet deep (Ref. 14). The nearest well is located at the Memorial Presbyterian Church, approximately 10,000 feet from the center of the plant; it serves approximately 75 persons (Refs. 4, 20-22). A small area 2½-3 miles north of the plant lies outside Guilford County's water service area (Refs. 4, 18). Since this area is apparently not served by another water supplier (Ref. 19), its estimated 15 residences (57 persons) are assumed to use private wells. Two additional areas not served by Guilford County are located 3-4 miles north of the plant; an estimated 86 residences (327 persons) in these areas are assumed to use private wells. The actual numbers of residences may be higher, since the house counts were based upon 1968 topographic maps (Ref. 4).

North Buffalo Creek flows through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 3, 4). A 15-mile extended pathway would continue

downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Ref. 4). North Buffalo Creek and Buffalo Creek are apparently not used for recreation. There are apparently no water supply intakes located within 15 miles downstream from the facility (Ref. 23).

2.0 SAMPLING INVESTIGATION

The sampling investigation will include the collection of water and sediment samples from the onsite lagoon and from upgradient and downgradient locations in North Buffalo Creek. Composite surface soil and subsurface soil samples will be taken in the dye waste disposal area just south of the lagoon. A groundwater sample will be taken in this area reasonably close to the lagoon by installing a temporary well. Background samples for the surface and subsurface soil samples and the groundwater samples will be taken upstream along Buffalo Creek between the old building and the creek. Samples will be analyzed for extractable and purgeable organic compounds, pesticides, PCBs, cyanides, and metals. Analyses will be performed under the Contract Laboratory Program (CLP). Anticipated sample locations are shown in Figure 2-1. Sample code and descriptions are presented in Table 2-1.

2.1 Surface Soil Sampling

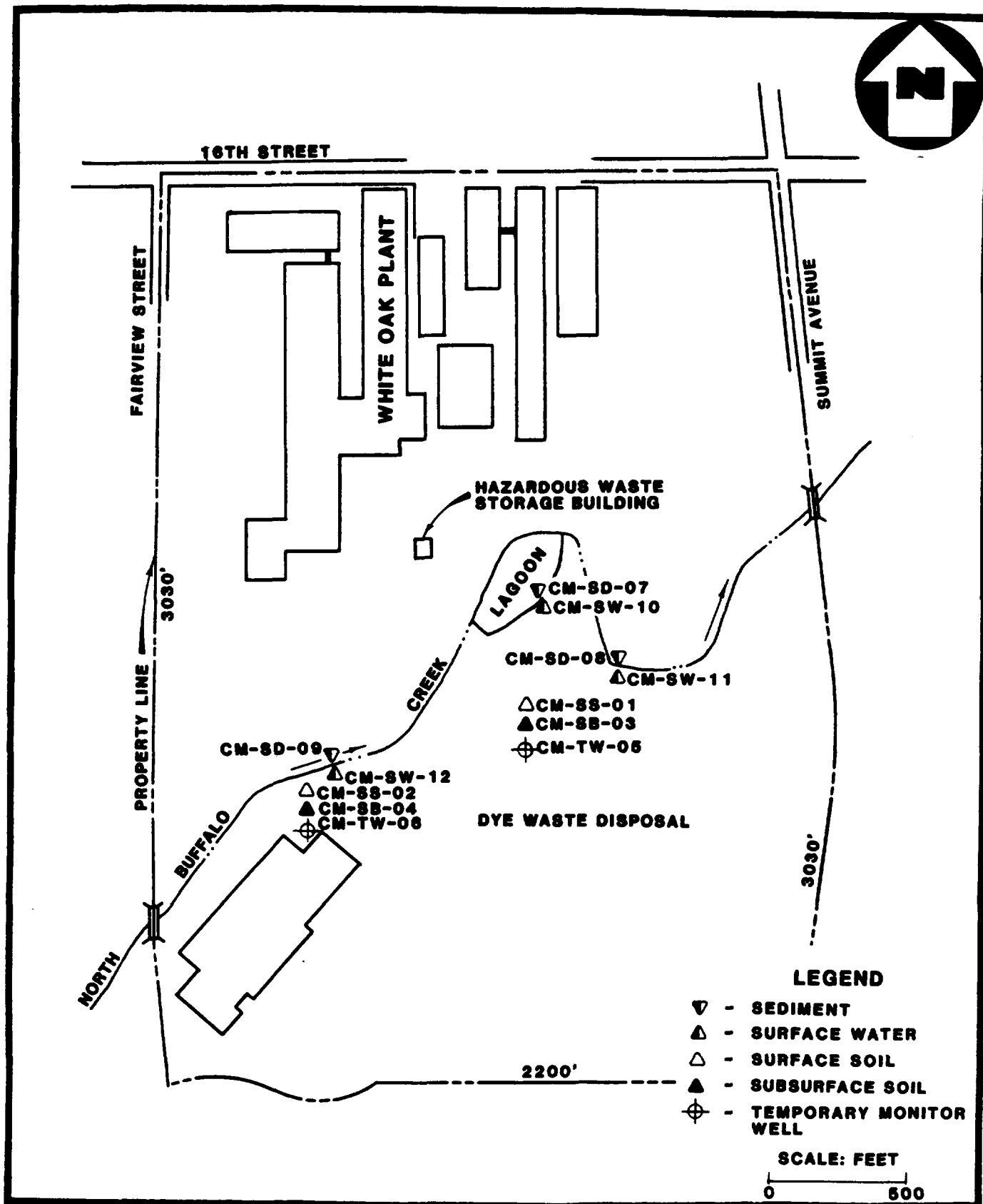
Two surface soil samples will be collected at the locations shown in Figure 2-1. These samples will be used to characterize upgradient and onsite surface soil conditions. Samples will be collected with stainless steel spoons.

2.2 Subsurface Soil Sampling

Two subsurface soil samples will be collected as shown in Figure 2-1 at the same locations as the surface soil samples and between 5 and 6 feet deep. These samples will be used to characterize upgradient and onsite subsurface soil conditions. Samples will be collected from boreholes advanced with a gasoline-powered hand auger.

2.3 Groundwater Sampling

Two groundwater samples will be collected as shown in Figure 2-1 at the same locations as the surface and subsurface soil samples. These samples will be used to characterize



**SAMPLE LOCATIONS MAP
 CONE MILLS CORPORATION
 GREENSBORO, (GUILFORD COUNTY)
 NORTH CAROLINA**

FIGURE 1-3

TABLE 2-1

SAMPLE CODE DESCRIPTIONS AND LOCATIONS

Sample Code	Description	Location/Rationale
CM-SS-01	Surface Soil	Waste disposal area; establish absence or presence of contaminants.
CM-SS-02	Surface Soil	Upgradient from waste disposal area; establish ambient background.
CM-SB-03	Subsurface Soil	Waste disposal area; establish absence or presence of contaminants.
CM-SB-04	Subsurface Soil	Upgradient from waste disposal area; establish ambient background.
CM-TW-05	Temporary Well	Waste disposal area; establish absence or presence of contaminants.
CM-TW-06	Temporary Well	Upgradient from waste disposal area; establish ambient background.
CM-SD-07	Sediment	Lagoon; establish absence or presence of contaminants
CM-SD-08	Sediment	North Buffalo Creek; downgradient from waste disposal area; establish absence or presence of contaminants
CM-SD-09	Sediment	North Buffalo Creek; upgradient from waste disposal area; establish ambient background
CM-SW-10	Surface Water	Lagoon; establish absence or presence of contaminants
CM-SW-11	Surface Water	North Buffalo Creek; downgradient from waste disposal area; establish absence or presence of contaminants
CM-SW-12	Surface Water	North Buffalo Creek; upgradient from waste disposal area; establish ambient background

upgradient and onsite groundwater conditions. Samples will be collected by installing temporary wells using a gasoline-powered hand auger.

2.4 Sediment and Surface Water Samples

Three sediment and three surface water samples will be collected at the locations shown in Figure 2-1, two of each from North Buffalo Creek at upstream and downstream locations from the waste disposal area, and one of each from the lagoon.

2.5 Analytical and Container Requirements

Sample containers used will be in accordance with the requirements specified in the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986. The following is a description of the analysis and types of containers required.

<u>Analyses</u>	<u>Container</u>	<u>Preservatives**</u>
Ext. Organics, Water	1 gal., amber glass*	None
Volatile Organics, Water	40 ml., glass vial*	4 drops conc. HCL to pH <2
Metals, Water	1 liter, plastic	50% HNO ₃ to pH <2
Cyanide, Water	1 liter, plastic	NaOH to pH >12
Ext. Organics, Soil/Sediment	8 oz., glass*	None
Volatile Organics Soil/Sediment	4 oz., glass*	None
Inorganics, Soil/Sediment	8 oz., glass*	None

* Sample container lids are lined with teflon.

** All samples will be iced to 4°C upon collection.

2.6 Methodology

2.6.1 General

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation will be in accordance with the standard operating procedures as specified in Section 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.

All laboratory analyses and laboratory quality assurance procedures used during this investigation will be in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division; revised June 1, 1985 or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

References

1. Elam, Harper J., III. Vice President and General Counsel. USEPA Hazardous Waste Permit Application for Cone Mills Corp., White Oak Plant. November 17, 1980.
2. Map of City of Greensboro, North Carolina. 1985.
3. Brown, Chris. Logbook F4-791 and photographs for Cone Mills, White Oak, Greensboro, N.C. TDD #F4-8803-58. Offsite reconnaissance and target survey. April 19, 1988.
4. United States Geological Survey. Topographic Quadrangles for Browns Summit (1951, photorevised 1986), Greensboro (1951, photorevised 1968), Lake Brandt (1951, photorevised 1968), and McLeansville (1952, photorevised 1968), North Carolina. 7.5 minute series.
5. Phibbs, Steve. Solid and Hazardous Waste Management Branch, State of N.C., RCRA Inspection Checklist: Generators Checklist for Cone Mills-White Oak. June 23, 1981.
6. Elam, Harper J., III. Vice President and General Counsel. USEPA General Information form, Consolidated Permits Program, for Cone Mills Corporation, White Oak Plant, Greensboro, N.C. November 17, 1980.
7. Phibbs, Steve. District Sanitarian, North Central Regional Office. Memorandum to O.W. Strickland, Head, Solid and Hazardous Waste Management Branch, State of N.C. Re: Hazardous Waste Inspection, Cone Mills-White Oak Plant. September 23, 1982.
8. Crosby, Lee. N.C. Division of Health Services. USEPA Potential Hazardous Waste Site, Preliminary Assessment for Cone Mills Corporation/White Oak Plant. January 8, 1985.
9. Paige, William. Environmental Chemist, Solid and Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation, White Oak Plant. Re: Listings of Hazardous Waste Activities. August 18, 1981.
10. Alspaugh, T.A. Manager, Water & Air Resources, Cone Mills Corporation. Letter to William Paige, Solid and Hazardous Waste Management Branch, State of N.C. Re: PCB Transformer Blowup, Cone Mills Corporation, Salisbury, N.C. August 5, 1981.
11. Alspaugh, T.A. Manager, Water & Air Resources, Cone Mills Corporation. Letter to Thomas C. Karnoski, Environmental Engineer, Solid & Hazardous Waste Management Branch. Re: Hazardous Waste Management Permit Application, Cone Mills Corporation, White Oak Plant. February 28, 1983.
12. Strickland, O.W. Head, Solid & Hazardous Waste Management Branch, State of N.C. Letter to Tom A. Alspaugh, Cone Mills White Oak Plant. Re: Termination of interim status for the White Oak Plant. July 25, 1983.
13. Lawson, Keith. Environmental Chemist, Solid & Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation. Re: Change in RCRA status for the White Oak Plant. April 29, 1985.

REFERENCES (Continued)

14. Mundorff, M.J., 1948. Geology and Groundwater in the Greensboro Area, North Carolina. North Carolina Department of Conservation and Development, Bulletin No. 55.
15. United States Dept. of Agriculture, Soil Conservation Service, 1977. Soil Survey of Guilford County, North Carolina.
16. North Carolina Geologic Survey, 1985. Geological Map of North Carolina.
17. U.S.G.S. (United States Geological Survey), 1984. National Water Summary 1984. U.S.G.S. WRI-2275.
18. Guilford County, N.C., Service Area Map (Water and Sewer). 1979, Revised August 24, 1987.
19. Grubbs, Don. Guilford County Water Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Water supply in the Greensboro, N.C. area. May 9, 1988.
20. Faw, Rev. McLean. Memorial Presbyterian Church, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Drinking water well located at Memorial Presbyterian Church. May 25, 1988.
21. Dupont, Joan. NUS Corporation. Note to file. Re: Public water supply wells within 4 miles of Cone Mills Corp., White Oak Plant. TDD No. F4-8803-57. June 23, 1988.
22. NCDHR (North Carolina Department of Human Resources, Environmental Health Section, Water Supply Branch. Alphabetical within County Listings of Active Community and Non-Community PWS for Guilford County. November 19, 1987.
23. Moorefield, David. Water Administration, Guilford County Water and Sewer Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Use of North Buffalo Creek and Buffalo Creek. May 26, 1988.
24. North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council. Cape Fear River Basin Study: Ground-Water Supply Potential and Procedures for Well-Site Selection, Upper Cape Fear River Basin. October, 1983.

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV, ATHENS, GEORGIA

MEMORANDUM

DATE: AUG 16 1988

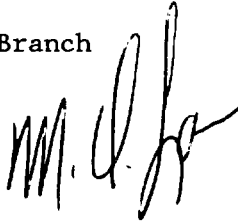
SUBJECT: Cone Mills Corporation, White Oak Plant
Site Screening Investigation Study Plan
Greensboro, Guilford County, North Carolina. ESD Project No. 88E-426.

FROM: Patrick Boyle
Hazardous Waste Section
Environmental Compliance Branch
Environmental Services Division



TO: Narindar Kumar, Acting Chief
Site Assessment Section
Site Investigation and Support Branch
Waste Management Division

THRU: M. D. Lair, Chief
Hazardous Waste Section
Environmental Compliance Branch
Environmental Services Division



The subject document has been reviewed and it appears to be an adequate study plan for the intended purpose of the investigation.

If you have any questions concerning these comments, please call at FTS 250-3351.

cc: Lair/Mundrick
Knight
Blackwell, NUS

4ES/AS

October 12, 1988

Phil Blackwell
NUS Corporation
1927 Lakeside Parkway
Suite 614
Tucker, GA 30084

Dear Phil:

Enclosed is a copy of Extractable Organic data from samples collected at the Cone Mills-White Oak; Greensboro, NC 88-007.

If you have any questions, please contact me at (404)546-3112.

Sincerely yours,

Tom B. Bennett, Chief
Organic Chemistry Section

Inclosure

bcc: Narindar Kumar

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

10/11/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC **
** STATION ID: SW-03 N BUFFALO CK DOWNGRAD COLLECTION START: 08/22/88 1215 STOP: 00/00/00 **

RESULTS UNITS COMPOUND
2JN UG/L CHLORODIETHYLTRIAZINE DIAMINE (SIMAZINE)

RESULTS UNITS COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710

C-586-6-8-139

June 29, 1988

Mr. Narindar Kumar
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Date: 7/7/88
Site Disposition: L - SSI
EPA Project Manager: RM

Subject: Preliminary Reassessment
Cone Mills Corporation, White Oak Plant
Greensboro, Guilford County, North Carolina
NCD 000776914
TDD No. F4-8803-57

Dear Mr. Kumar:

FIT 4 conducted a preliminary reassessment of the Cone Mills Corporation, White Oak Plant in Greensboro, Guilford County, North Carolina. The reassessment included a review of both EPA and State of North Carolina file material, an off-site reconnaissance, and a target survey.

Cone Mills' White Oak Plant is located inside the Greensboro city limits (Refs. 1, 2). The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 3,4). Since at least 1973, the plant has produced textiles, from the fiber phase through finishing of broad woven fabric (Refs. 5,6). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 7). In 1981, 15 gallons of waste solvent per week were generated and subsequently discharged to the plant's wastewater treatment system. At that time, the facility had an NPDES permit; permit conditions apparently had been violated in 1973 or 1974 (Ref. 5). Dye wastes (possibly containing metals) and/or solvents may have been disposed of onsite through burial and/or land application (Refs. 1, 8). The North Carolina Department of Natural Resources and Community Development found indications of onsite contamination in the plant and creek areas (Ref. 8). Hazardous wastes from other Cone Mills plants were apparently stored at the White Oak Plant (Ref. 9). Materials used to clean up a small PCB spill at Cone Mills' Salisbury Plant were stored temporarily at the White Oak Plant (Ref. 10).

Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility (containers and tanks) and reported its wastes as 24,000 pounds per year of ignitable wastes (Ref. 1). The facility's status was changed from generator and storer to generator only in 1983 and its interim status was withdrawn (Refs. 11, 12). Its status was changed to small quantity generator in 1985 (Ref. 13).

Mr. Narindar Kumar
Environmental Protection Agency
TDD No.F4-8803-57
June 29, 1988, Page 2

The Cone Mills Corporation, White Oak Plant is located within the Piedmont Physiographic Province. The area is characterized by gently rolling topography with elevations ranging between 740 and 900 feet above mean sea level (amsl) (Refs. 4, 14). Soils consist of a well drained, sandy clay loam (Ref. 15). The area is underlain by metamorphosed granitic rock (Ref. 16).

The metamorphosed granitic rock and the saturated regolith (weathered rock) overlying it both form the Crystalline Rock Aquifer. The crystalline rocks have very low permeability. Large well yields depend on the interception of water-bearing fracture systems overlain by saturated regolith. Sustained yields depend on the thickness of the saturated regolith. The average yield of wells is from 10 to 25 gallons per minute (gpm); however, some wells may yield more than 200 gpm (Ref. 17). The average depth to the water table in this Piedmont area is approximately 15 feet (Ref. 24).

Most of the area within a three-mile radius of the White Oak Plant lies within the service area boundaries of the Guilford County Water Department (Refs. 4, 18). Guilford County obtains its water supply from Lakes Townsend, Higgins, and Brandt, located more than four miles north/northwest of the site (Refs. 4, 19); the lakes are not located on the surface water migration pathway. Nearly the entire population within the city limits of Greensboro (Ref. 2) utilizes the county water system. Residents within the county's service areas but outside the city limits are not required to hook up to the county's water lines. Groundwater wells in the Greensboro area are generally at least 150 feet deep (Ref. 14). The nearest well is located at the Memorial Presbyterian Church, approximately 10,000 feet from the center of the plant; it serves approximately 75 persons (Refs. 4, 20-22). A small area 2.5-3 miles north of the plant lies outside Guilford County's water service area (Refs. 4, 18). Since this area is apparently not served by another water supplier (Ref. 19), its estimated 15 residences (57 persons) are assumed to use private wells. Two additional areas not served by Guilford County are located 3-4 miles north of the plant; an estimated 86 residences (327 persons) in these areas are assumed to use private wells. The actual numbers of residences may be higher, since the house counts were based upon 1986 topographic maps (Ref. 4).

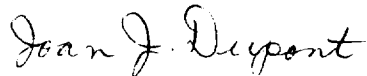
North Buffalo Creek flows through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 3, 4). A 15-mile extended pathway would continue downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Ref. 4). North Buffalo Creek and Buffalo Creek are apparently not used for recreation. There are apparently no water supply intakes located within 15 miles downstream from the facility (Ref. 23).

Access to the site is limited by fences, gates, and security personnel. The surrounding area is primarily residential. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately one mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 3, 4).

Mr. Narindar Kumar
Environmental Protection Agency
TDD No.F4-8803-57
June 29, 1988, Page 3

Based upon the information given above and the enclosures, no further remedial action planned is recommended for the Cone Mills Corporation, White Oak Plant. If you have any questions concerning this site, please contact me at NUS Corporation.

Very truly yours,



Joan J. Dupont
Project Manager

JJD/las

Enclosures

cc: Denise Bland

Approved:



REFERENCES

1. Elam, Harper J., III. Vice President and General Counsel. USEPA Hazardous Waste Permit Application for Cone Mills Corp., White Oak Plant. November 17, 1980.
2. Map of City of Greensboro, North Carolina. 1985.
3. Brown, Chris. Logbook F4-791 and photographs for Cone Mills, White Oak, Greensboro, N.C. TDD #F4-8803-58. Offsite reconnaissance and target survey. April 19, 1988.
4. United States Geological Survey. Topographic Quadrangles for Browns Summit (1951, photorevised 1986), Greensboro (1951, photorevised 1968), Lake Brandt (1951, photorevised 1968), and McLeansville (1952, photorevised 1968), North Carolina. 7.5 minute series.
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15. United States Dept. of Agriculture, Soil Conservation Service, 1977. Soil Survey of Guilford County, North Carolina.
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17. U.S.G.S. (United States Geological Survey), 1984. National Water Summary 1984. U.S.G.S. WRI-2275.
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24. North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council. Cape Fear River Basin Study: Ground-Water Supply Potential and Procedures for Well-Site Selection, Upper Cape Fear River Basin. October, 1983.

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

BOHE MILLS CORP., WHITE OAK PLANT
EPA SITE NUMBER NCD000775914
GREENSBORO
GUILFORD COUNTY, NC
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY JOAN J. DUPONT
OF WUS CORPORATION
ON 06/01/88

DATE OF THIS REPORT: 06/30/88
DATE OF LAST MODIFICATION: 06/30/88

GROUND WATER ROUTE SCORE :	25.88
SURFACE WATER ROUTE SCORE:	0.00
AIR ROUTE SCORE :	0.00
<hr/>	
MIGRATION SCORE :	14.67

GROUND WATER ROUTE SCORE

GROUND WATER ROUTE	RAW DATA	MATRIX VALUE	SCORE
1. ASSUMED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
DEPTH TO WATER TABLE	15 FEET		
DEPTH TO BOTTOM OF WASTE	6 FEET		
DEPTH TO AQUIFER OF CONCERN	9 FEET	3	3
PRECIPITATION	44.0 INCHES		
EVAPORATION	40.5 INCHES		
NET PRECIPITATION	3.5 INCHES	1	1
PERMEABILITY	1.0×10^{-6} CM/SEC	1	1
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			11
3. CONTAINMENT		2	2
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE: CHROMIUM			18
WASTE QUANTITY	CUBIC YDS	100	
	DRUMS	0	
	GALLONS	0	
	TONS	0	
TOTAL	100 CU. YDS	3	3
TOTAL WASTE CHARACTERISTICS SCORE:			21
5. TARGETS			
GROUND WATER USE		3	9
DISTANCE TO NEAREST WELL	10000 FEET		
AND	MATRIX VALUE	12	12
TOTAL POPULATION SERVED	132 PERSONS		
NUMBER OF HOUSES	15		
NUMBER OF PERSONS	75		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			21

GROUND WATER ROUTE SCORE (Sgw) = 25.38

WATER QUALITY RISK ASSESSMENT

HAZARDOUS WASTE	RAW DATA	ASNT VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER	NO		
SITE WITHIN CLOUDED BASIN	NO		
FACILITY SLOPE	6.7 %		
INTERVENING SLOPE	7.5 %	2	0
24-HOUR RAINFALL	2.7 INCHES	2	2
DISTANCE TO DOWN-SLOPE WATER	400 FEET	3	6
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			13
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE: CHROMIUM			18
WASTE QUANTITY	CUBIC YDS	100	
	DRUMS	0	
	GALLONS	0	
	TONS	0	
TOTAL	100 CU. YDS	3	3
TOTAL WASTE CHARACTERISTICS SCORE:			21
5. TARGETS			
SURFACE WATER USE		0	0
DISTANCE TO SENSITIVE ENVIRONMENTS		0	0
COASTAL WETLANDS	NONE		
FRESH-WATER WETLANDS	NONE		
CRITICAL HABITAT	NONE		
DISTANCE TO STATIC WATER	> 3 MILES		
DISTANCE TO WATER SUPPLY INTAKE	> 3 MILES		
AND	MATRIX VALUE	0	0
TOTAL POPULATION SERVED	0		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			0
SURFACE WATER ROUTE SCORE (S _{SW}) = 0.00			

1. AIR ROUTE SCORE

CONCESSIONAL OFFICE	RAW DATA	ASSET VALUE	SCORE
ADJUTANT GENERAL	NO	0	0

2. WASTE CHARACTERISTICS

REACTIVITY :

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY / CUBIC YARDS
DRUMS
GALLONS
TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

0 to 0.25 mile
0 to 0.50 mile
0 to 1.0 mile
0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS

COASTAL WETLANDS
FRESH-WATER WETLANDS
CRITICAL HABITAT

DISTANCE TO LAND USES

COMMERCIAL/INDUSTRIAL
PARK/FOREST/RESIDENTIAL
AGRICULTURAL LAND
PRIME FARMLAND
HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

AIR ROUTE SCORE (Sa) = 0.00

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS 11
 CONTAINMENT X 3
 WASTE CHARACTERISTICS X 21
 TARGETS X 21

$$= 14508 / 57,320 \times 100 = 25.38 = S_{gw}$$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 19
 CONTAINMENT X 3
 WASTE CHARACTERISTICS X 21
 TARGETS X 0

$$= 0 / 64,350 \times 100 = 0.00 = S_{sw}$$

AIR ROUTE SCORE

$$\text{OBSERVED RELEASE } 0 / 35,100 \times 100 = 0.00 = S_{air}$$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	<u>S</u>	<u>S²</u>
GROUND WATER ROUTE SCORE (S _{gw})	25.38	644.14
SURFACE WATER ROUTE SCORE (S _{sw})	0.00	0.00
AIR ROUTE SCORE (S _{air})	0.00	0.00
S ² _{gw} + S ² _{sw} + S ² _{air}		644.14
√ (S ² _{gw} + S ² _{sw} + S ² _{air})		25.38
S _M = √ (S ² _{gw} + S ² _{sw} + S ² _{air}) / 1.73		14.67

RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site name: ^{Corporation} Cone Mills White Oak Plant
City, County, State: Greensboro, Guilford County, North Carolina
EPA ID No.: NCD000776914
Person responsible for form: Jean J. Dupont
Date: June 23, 1988

Air Pathway

Describe any potential air emission sources onsite:

Unknown, with respect to hazardous wastes.
(Three smokestacks are located at the newer section of the facility.)

Identify any sensitive environments within 4 miles:

Freshwater wetlands are located 3.5-4 miles from the facility.

Identify the maximally exposed individual (nearest residence or regularly occupied building - workers do count): Onsite workers, since the facility is currently active

Groundwater Pathway

Identify any areas of karst terrain:

None apparent

Identify additional population due to consideration of wells completed in overlying aquifers to the

AOC: None

Do significant targets exist between 3 and 4 miles from the site?

No

Is the AOC a sole source aquifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flager County, Florida)

No

Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway?

No

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway?

No

Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher?

Possibly - Dye wastes and/or solvents may have been disposed of onsite through burial and/or land application.

Is the site accessible to non-employees (workers do not count)?

No - Access is limited by fences, gates, and security personnel.

Are there residences, schools, or daycare centers onsite or in close proximity?

A recreational facility is located on Fairview Street, across from the plant's main entrance. Another recreational area is located

Are there barriers to travel (e.g., a river) within one mile?

North Buffalo Creek flows ^{ward} northeast through the facility.
White Oak Lake is located north of the facility.

approximately one mile north of the plant, south of Rankin School. Caesar Cone School is located approximately ← 2500 feet west of the plant.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.

1. **AMOUNT** — Enter the amount.
2. **UNIT OF MEASURE** — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

92A Form 3510-2 (6-80) PAGE 1 OF 3 CONTINUE ON REVERSE

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TU"). FOR EACH PROCESS ENTERED HERE, INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE **CODE**
 POUNDS.....P
 TONS.....T

METRIC UNIT OF MEASURE **CODE**
 KILOGRAMS.....K
 METRIC TONS.....M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Notes: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY											
W N C D 0 0 0 7 7 6 9 1 4 3 1													W DUP 2 DUP											
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																								
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																	
							1. PROCESS CODES (enter)								2. PROCESS DESCRIPTION (if a code is not entered in D(1))									
1	D	0	0	1	24000	P	S	01	S	02														
2																								
3																								
4																								
5																								
6																								
7																								
8																								
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20																								
21																								
22																								
23																								
24																								
25																								
26																								

EPA I.D. NO. (enter from page 1)

F	N	C	D	0	0	0	7	7	6	9	1	4	Page	6
---	---	---	---	---	---	---	---	---	---	---	---	---	------	---

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

LATITUDE (degrees, minutes, & seconds)

3	6	0	6	1	5
18	14	17	11	2	31

LONGITUDE (degrees, minutes, & seconds)


	7	9	4	6	1	5
--	---	---	---	---	---	---

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER															2. PHONE NO. (area code & no.)																			
E															F																			
3. STREET OR P.O. BOX															4. CITY OR TOWN										5. ST.					6. ZIP CODE				
F															G										H					I				

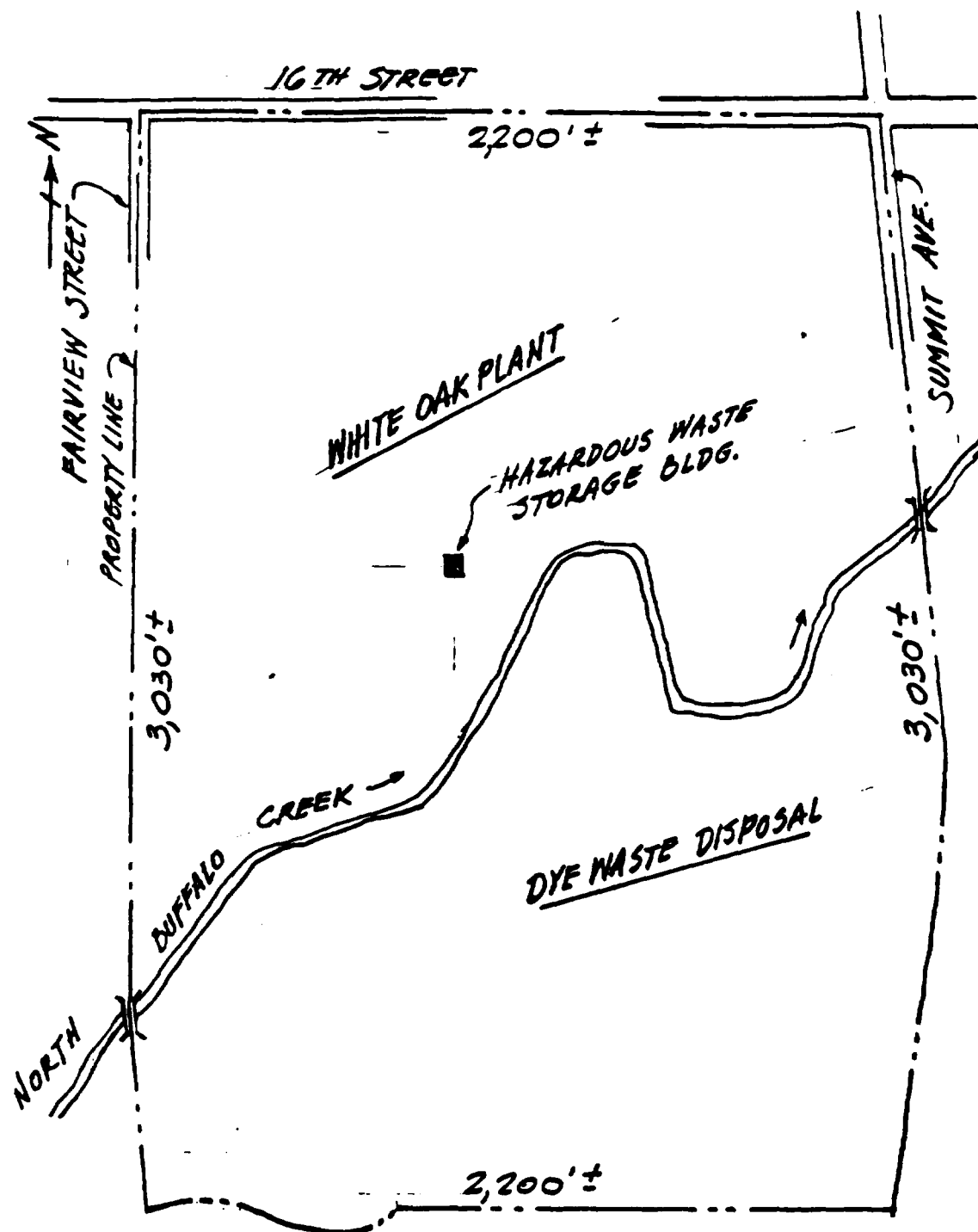
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

<p>A. NAME (print or type)</p> <p>Harper J. Elam, III Vice President & General Counsel</p>	<p>B. SIGNATURE</p> 	<p>C. DATE SIGNED</p> <p>11/17/80</p>
--	--	---------------------------------------

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
		

V. FACILITY DRAWING (see page 4)



SCALE: 1" = 500'

CONE MILLS CORP.
WHITE OAK PLANT
GREENSBORO, N.C.

Map of City of Greensboro, North Carolina. 1985.

(Large map. On file at NUS Corporation.)



LEVEL

NOTEBOOK NO. 311

F4 791

Cone Mills White Oak

F4- 8803 -57

GREENBERG, N.C.

Joan J. Dugont
Proj. Mgr.

**LOGBOOK REQUIREMENTS
REVISED - JANUARY 6, 1988**

**NOTE: ALL LANGUAGE SHOULD BE FACTUAL
AND OBJECTIVE**

1. Record on front cover of the Logbook:
TDD No., Site Name, Site Location, Project Manager
2. All entries are made using ink.
3. Provide statement referencing Equipment Location Log.
4. Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
5. Sign and date each page. Project Manager is to review and sign off on each logbook daily.
6. A single line is drawn through error. Each correction is dated/initialed.
7. Report weather conditions. Provide general site description and remarks.
8. Document all changes from project planning documents.
9. Provide a site sketch with sample locations.
10. Document all calibration and pre-operational checks of equipment.
11. Provide reference to Sampling Field Sheets for detailed sampling information.
12. Maintain photo log by completing the stamped information at the end of the logbook.
13. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

4/19/88

000001

1030

Arrived at the Cone Mills Facility located at the intersection of 16th Street and Fairview Street

The facility covers several square blocks and is still active.

A new portion of the plant is located along 16th Street while an older looking section is located south of 16th off Fairview St.

A creek runs between the old + new sections as well as a rail road track.

Chris Brown

4/19/88

16 in

(2)

New Section

Shake
Stakes

Stream

Old Section

House

Photo #1

Photo #2

000000

* Each section actually consists of a number of buildings.

Chris Brown

4/19/88

000003

Access to site is well restricted with fences, gates and security personnel.

Due to site restrictions difficult to determine any waste disposal areas - old or new.

There was, however, a house Northeast of the old section - did not see any inlet or outlet pipes.

The area surrounding the plant site is primarily residential.

A recreational facility is located across Fairview from the plant's main entrance.

A school is located

Chris Brown

000005

4/1/70

approximately 2 blocks

west at 14th and

Golden Gate Streets

"Casper Case School"

not readily apparent what

Grade level school is in.

John Dupont

4/29/88

The work plan was discussed with

and distributed to the field team

John Dupont

11/29/88

Original: John Dupont
for 1/10/88

000003

John Brown

4/19/88 C. Brown (4)

10:30

Cone Mills - Greensboro, N.C.

Overview looking north

4/19/88 C. Brown (5)

10:30

Cone Mills - Greensboro, N.C.

Creek running through facility -
looking N-NE from Fairview Street

4/19/88 C. Brown (6)

10:30

Cone Mills - Greensboro, N.C.

Waste piles in foreground -
looking SW

4/19/88 C. Brown (7)

10:30

Cone Mills - Greensboro, N.C.

Recreational area located north
of Cone Mills Plant, south of Rankin
School.

Date _____ By Whom _____

Time _____

Location _____

Exposure _____

Date _____ By Whom _____

Time _____

Location _____

Exposure _____

Reference
4

OVERSIZED

DOCUMENT

MAP

GENERATORS CHECKLIST

Reference No. 5

Name <u>Cone Mills-White Oak</u>	EPA I.D. <u>N.C. Doc 776919</u>	County <u>Lincoln</u>
Location <u>2420 Fairview St.</u>	Contact Person <u>Tom Alexander</u>	Date <u>1/25/81</u>
Survey Participants <u>Steve Hilde</u>		

INSTRUCTIONS: In the space provided, use the listed codes to indicate status.
C - Compliance, NC - Noncompliance, NA - Not Applicable

- EPA identification number, if applicable (262.12) N.C. Doc 776919
- Waste Volume (261.5)
 - *Small Generator (<1000 kg/Mo) ☒
 - *Large Generator (>1000 kg/Mo) ☐

(*Note: Special limits on 261.33(e) list)
- Briefly describe the plant operations and the type of waste generated. (Volume, form) 15 gallons of Waste Solvents generated on a weekly basis
- Where is the waste currently being disposed? Waste Solvent is discharged to Plant Wastewater Treatment System
- Check Manifest (262.20 - 262.23)
 - identification (I.D. code, name, address, date) yes
 - waste information (shipping description, hazard class, quantity and unit) yes
 - emergency information (immediate response information, special handling instructions, phone no.) yes
 - certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA". yes
- Check Containers (262.30)
 - improper construction —
 - leaks or corrosion —
 - heat generation from incompatible wastes —

7. Labeling practices and marking (262.31 - 262.32)

- a. DOT shipping description _____
- b. Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator's Name and Address _____

Manifest Document Number _____

Waste shipped in bulk

8. Placards for transport (262.33) _____

9. Check accumulation time of wastes: (262.34) N/A

- a. check records and dates _____
- b. check containers _____

10. Recordkeeping practices:

- a. manifests (262.40) _____ yes
- b. test results (262.40) _____ yes
- c. annual reports (262.41) _____
- d. exception reports (262.42) _____

11. International shipments (262.50) _____ N/A

12. Permit information:

- a. Check all applicable permits held by the generator:

☒ NPDES Permit ☒ SPCC Plan ☐ State Permit (Specify) _____

☒ Air Permits ☐ Local Permit ☐ RCRA Disposer

☒ RCRA Storer ☐ RCRA Treater

☐ Other (Specify) _____

- b. In Compliance ☒ Yes ☐ No ☐ Unknown with respect to: _____
Regulation Name/#

13. Past regulatory actions: (Circle response)

None

Yes If yes, summarize: NPDES discharge questioned 7-8
years ago. Company paid \$15,000 fine

- Continued

14. Inspection activity (past or on-going): (Circle response)

	Date of Past Action	Performed by EPA or <u>State</u>

None

Yes -- Specify:

Describe:

A.R.C.D.
A.P.D.E.S discharge
Requirements

15. Remedial activity (past or on-going): (Circle response)

None

Yes -- Specify:

FORM
1
GENERAL



ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

NC D 0 0 0 7 7 6 9 1 4

II. FACILITY NAME
III. FACILITY NAME
IV. FACILITY MAILING ADDRESS
V. FACILITY LOCATION

Reference No. 6

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, fill it in the designated space. Review the information carefully; if any of it is incorrect, cut through it and enter the correct data in appropriate fill-in area below. Also, if any the preprinted data is absent (the area to left of the label space floor the information that should appear), please provide it in proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column. If the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1. CONE MILLS CORPORATION WHITE OAK PLANT

IV. FACILITY CONTACT

2. A. NAME & TITLE (Last, First, & Middle) B. PHONE (area code & no.)
A. L. S. PAUGH, TOM, MGR WATER & WASTE 919 379 6579

V. FACILITY MAILING ADDRESS

3. A. STREET OR P.O. BOX B. CITY OR TOWN C. STATE D. ZIP CODE
2420 FAIRVIEW STREET GREENSBORO NC 27405

VI. FACILITY LOCATION

5. A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER B. COUNTY NAME C. CITY OR TOWN D. STATE E. ZIP CODE F. COUNTY CODE (if known)
2420 FAIRVIEW STREET GUILFORD NC 27405

VIII. SIC CODES (4-digit, in order of priority)

A. FIRST

B. SECOND

7 2 2 1 1

(specify)

Weave
Broadwoven fabric, cotton

7

(specify)

C. THIRD

D. FOURTH

7

(specify)

7

(specify)

VIII. OPERATOR INFORMATION

A. NAME

B. Is the name listed
Item VIII-A also the
owner?

CONE MILLS CORPORATION

☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

D. PHONE (area code & no.)

F - FEDERAL
S - STATE
P - PRIVATEM - PUBLIC (other than federal or state)
O - OTHER (specify)

P

(specify)

A

9 1 9 3 7 9 6 2 2 0

E. STREET OR P.O. BOX

1 2 0 1 MAPLE STREET

F. CITY OR TOWN

G. STATE

H. ZIP CODE

IX. INDIAN LAND

GREENSBORO

N C

2 7 4 0 5

Is the facility located on Indian lands?

☐ YES☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)

D. PSD (Air Emissions from Proposed Sources)

N C 0 0 0 0 8 7 6

9

P

B. UIC (Underground Injection of Fluids)

E. OTHER (specify)

9 U

9

(specify)

C. RCRA (Hazardous Wastes)

E. OTHER (specify)

9 R

9

(specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Integrated textile plant; fiber through finishing of broad woven fabric, all cotton and some cotton and synthetic blends.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)

B. SIGNATURE

C. DATE SIGNED

Harper J. Elam, III
Vice President & General Counsel

H. J. Elam III

11/17/80

COMMENTS FOR OFFICIAL USE ONLY



Reference No. 7

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive-Plaza West
Winston-Salem, N.C. 27106
(919) 761-2390

September 23, 1982

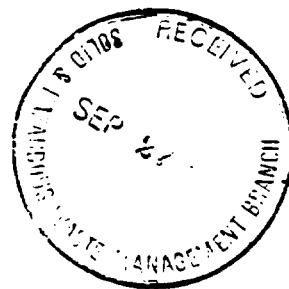
MEMORANDUM

TO: O.W. Strickland, Head
Solid and Hazardous Waste Management
Branch

FROM: Steve Phibbs, District Sanitarian
North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405
E.P.A. ID#NCD000776914



On September 21, 1982 a RCRA hazardous waste inspection was conducted at the Cone Mills - White Oak Plant in Greensboro, N.C. No violations were noted during the inspection.

SP:kd

1) Facility Information

Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405

2) Facility Contact

Tom Alspaugh

3) Survey Participants

Tom Alspaugh, Cone Mills
Arthur Toompas, Cone Mills
Steve Phibbs, District Sanitarian, DHS

4) Date of Inspection

September 21, 1982

5) Applicable Regulations

40 CFR Part 262 and Part 265

6) Scope of Survey

No change

7) Facility Description

No change

4) Addendum - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Deficiencies

None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR
OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT
FACILITIES

Name of Site One Mills Corp-White Oak Plant EPA I.D. NC0000716919 County Guilford
 Location 2420 Fairview St., Greensboro, N.C. 27405 Signature of Facility Contact J. R. DeWitt
 Date Sept. 21, 1982 Signature of Inspector(s) Steve Phillips
 INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

	<u>C</u>	<u>NC</u>	<u>NA</u>	<u>Violation(s)</u>
1. GENERAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. GENERAL FACILITY STANDARDS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. PREPAREDNESS AND PREVENTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. GROUND-WATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. CLOSURE AND POST-CLOSURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. FINANCIAL REQUIREMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. USE AND MANAGEMENT OF CONTAINERS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. TANKS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. SURFACE IMPOUNDMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. WASTE PILES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. LAND TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. LANDFILLS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15. INCINERATORS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. THERMAL TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
17. CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. UNDERGROUND INJECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Generator, TSD Facility

Imminent hazard

YES

()

NO

(☒)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC D000776914

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

Cone Mill Corp./White Oak Plant

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

2420 Fairview Street

03 CITY

Greensboro

04 STATE

NC

05 ZIP CODE

27405

06 COUNTY

Guilford

07 COUNTY CODE

41

08 CONG DIST

6

09 COORDINATES

LATITUDE

36 06 15.30

LONGITUDE

079 46 15

10 DIRECTIONS TO SITE (Starting from nearest public road)

In Greensboro on I85 take US 29 North. Exit right on 16th Street. Turn left on 16th Street. Cone Mills White Oak Plant is located on left at intersection of 16th and Fairview Streets.

III. RESPONSIBLE PARTIES

01 OWNER (if known)

Cone Mills Corp.

02 STREET (Business, mailing, residential)

03 CITY

04 STATE

05 ZIP CODE

06 TELEPHONE NUMBER

()

07 OPERATOR (if known and different from owner)

08 STREET (Business, mailing, residential)

09 CITY

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

()

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11 / 17 / 80

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (RCRA 103 a)

DATE RECEIVED: / /

MONTH DAY YEAR

☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES

DATE

5 / 11 / 84

☐ NO

BY (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☒ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER

CONTRACTOR NAME(S): RCRA Compliance Inspection

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1980

1 ---

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination onsite (in the plant and creek areas) and offsite via conveyance down the creek.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possibly surface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☒ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspection on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

T.A. Alspaugh

02 OF (Agency/Organization)

Cone Mills

03 TELEPHONE NUMBER

(919) 379-6579

04 PERSON RESPONSIBLE FOR ASSESSMENT

Lee Crosby

05 AGENCY

NC DHS

06 ORGANIZATION

Sol & Haz Waste Mgt. Br.

07 TELEPHONE NUMBER

(919) 733-2178

08 DATE

1 / 8 / 85

MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Burial and/or land application of dye wastes and/or various solvents.

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Discharge of various solvents documented. Check for dye wastes also.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Effluent discharge and land application or burial.

01 ☒ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

In areas of land application.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Through contamination of groundwater or surface water supplies although none are suspected at this time.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

In any on-site contaminated areas.

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Off-site movement of surface or groundwaters

GREENSBORO QUADRANGLE
NORTH CAROLINA-GUILFORD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

2056 II NW
BROWNS SUMMIT

47°30'

1409

11 770 000 FEET

WHITE OAK HEIGHTS 0.3 MI.

REIDSVILLE 18 MI.
2.8 MI. TO U.S. 29

612

79°45'

36°07'30"

7.5 MI. TO N.D. 150
REIDSVILLE 18 MI.

397

860 000
FEET

396

395

394

BESSEMER 0.5 MI.
NIRLINGTON 19 MI.





— Reference No. 9

STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

P. O. Box 2091

Raleigh 27602

XXXXXXXXXXXXXXXXXXXX
Director

Ronald H. Levine, M.D.
Acting Director

August 18, 1981

NCD 000 776 914

Mr. T. A. Alspaugh
Cone Mills Corporation
White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

RE: Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this department's understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist
Solid & Hazardous Waste Management Branch
Environmental Health Section

WP:lc

cc: Mr. Joe Deakins
Mr. Steve Phibbs
Mr. Jim Moore
Mr. Rick Doby

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

August 5, 1981



Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602

Re: PCB Transformer Blowup
Cone Mills Corporation
Salisbury Plant
Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

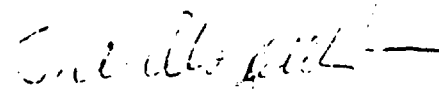
The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gloves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top 1" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh, NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

Sincerely,



T. A. Alspaugh
Manager, Water & Air Resources

crn

cc: Mr. Lee Clyburn, Plant Engineer
Mr. Graham Knight
Mr. Arthur Toompas
Mr. Rick Doby, State of NC Engineer

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

February 28, 1983



Mr. Thomas C. Karnoski
Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
P.O. Box 2091
Raleigh, NC 27602-2091

Re: Hazardous Waste Management Permit
Application
Cone Mills Corporation
White Oak Plant
Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone conversation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

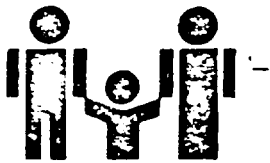
Sincerely,

T. A. Alsbaugh
Manager, Water & Air Resources

lt

cc: Mr. Garland Coffey
Mr. Arthur J. Toompas

KEITH
CANDY
PLEASE
THW.
TCK
HAWK



DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

1 2

Tom A. Alspaugh
Cone Mills White Oak Plant
4100 Pleasant Garden Road
Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.



Tom A. Alspaugh
Page 2
July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602

Very truly yours,

A handwritten signature in dark ink, appearing to read "O. W. Strickland", is written over the typed name.

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director
919/733-3446

Mr. T.A. Alspaugh
Cone Mills Corporation
2420 Fairview St.
Greensboro, NC 27405

Date: April 29, 1985

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you, we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<u> </u>	<u> X </u>	generator
<u> </u>	<u> </u>	transporter
	<u> </u>	treater
	<u> </u>	storer
	<u> </u>	disposer
<u> X </u>	<u> </u>	small generator

We are advising the EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is is not X being cancelled.

Cordially,

Keith Lawson, Environmental Chemist
Solid & Hazardous Waste Management Branch
Environmental Health Section

cc: Doug McCurry
EPA Region IV
Emil Breckling

NORTH CAROLINA
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
R. BRUCE ETHERIDGE, *Director*

DIVISION OF MINERAL RESOURCES
JASPER L. STUCKEY, *State Geologist*

BULLETIN NUMBER 55

Geology and Ground Water

IN THE

Greensboro Area, North Carolina

By
M. J. MUNDORFF

●

PREPARED IN COOPERATION WITH THE GEOLOGICAL SURVEY, UNITED STATES
DEPARTMENT OF THE INTERIOR

●

RALEIGH
1948

ABSTRACT

The Greensboro area is in the north-central Piedmont of North Carolina and includes Alamance, Caswell, Forsyth, Guilford, Rockingham, and Stokes Counties.

The area includes 2,975 square miles and had a population of 438,404 in 1940.

The area lies entirely within the Piedmont province, which is characterized by flat to rolling upland surfaces, separated by stream valleys, with a few scattered monadnock hills.

Except for a belt of sandstones and shales along Dan River, the area is underlain by igneous and metamorphic rocks, consisting chiefly of gneiss, schist, slate, and granite.

Wells drilled in greenstone schist have a considerably higher average yield than wells in any other rock unit. The average yield of municipal and industrial wells in this rock is 55 gallons a minute. In granite, gneiss, and the Triassic sandstones and shales, the average yield of municipal and industrial wells is 33 to 35 gallons a minute.

Topographic location has an important bearing on the amount of water yielded by wells. The average yield of wells drilled in draws and valleys is more than $3\frac{1}{2}$ times greater than the average yield of wells drilled on hills. It is probable that draws and valleys mark the location of sheared and fractured zones in which the rocks are saturated with water, whereas hills occupy areas of massive, unbroken rock which contain, and will yield, relatively little water.

Wells drilled where the weathered mantle is thick generally yield larger supplies than those drilled where it is thin.

The yield per foot of well generally decreases with depth and beyond 250 feet drops quite sharply, indicating that it is usually not advisable to drill beyond that depth if the well has not obtained water when it reaches that depth.

Included in the report are a number of tables showing the relation of yield to type of rock, to topographic location, and to depth of wells. The report includes a chapter on the ground-water resources of each of the six counties with tables of well data, chemical analyses, and well logs.

has the least. The greatest annual precipitation averaged over the entire area was 55.52 inches in 1929. The least annual precipitation averaged for the entire area was 29.75 inches in 1941.

The average annual snowfall is nearly 10 inches.

Temperature.—Records of the temperature are obtained by the U. S. Weather Bureau at Greensboro, Greensboro Airport, High Point, Reidsville, and Winston-Salem. In addition, records of temperature are available for Oak Ridge from 1890 to 1902 and for Saxon, Stokes County, from 1891 to 1914.

The mean annual temperature during the period of record at the five stations now being maintained is 58.8° F. The coldest month is January, with a mean temperature of 40.6° F.; and the warmest month is July with a mean temperature of 77.8° F. High Point is the warmest station, with a mean annual temperature of 60.2° F., and Winston-Salem and Greensboro Airport are the coldest stations with a mean annual temperature of 57.9° F.

The average date of the last killing frost in the spring is about April 12, and the average date of the first killing frost in the autumn is about October 25, leaving an average growing season of about 196 days.

DRAINAGE

The entire area is drained by three major drainage systems, the Yadkin, the Dan, and the Cape Fear. Most of the drainage of Forsyth County and the southwestern corner of Stokes County is into Yadkin River, which forms the western boundary of Forsyth County. The remainder of Stokes County and most of Rockingham and Caswell Counties is drained by Dan River. Most of Guilford County, all of Alamance County, the southern part of Rockingham County, and the southwestern corner of Caswell County are drained by Haw River. The southwestern corner of Guilford County is drained by Deep River, which combines with Haw River to form the Cape Fear. All these streams empty into the Atlantic Ocean to the southeast and south, but the courses of the individual streams within the area are diverse. The drainage pattern is largely controlled by the geology of the area.

PHYSIOGRAPHY

The Greensboro area lies entirely within the upland section of the Piedmont physiographic province which is an uplifted, submaturely to maturely dissected peneplane on more or less resistant rocks.¹ In the Greensboro area the upland surface, which generally slopes to the east and southeast, is interrupted by a number of monadnock hills, some of which rise nearly 1,500 feet above the surrounding peneplane remnants.

Igneous, metamorphic, and sedimentary rocks occur in the Greensboro area. The metamorphic rocks include gneisses, schists, slates, and quartzite; the igneous rocks include granites and diorites; the sedimentary rocks include conglomerate, sandstone, and shale of Triassic age.

The quartzites, and many of the gneisses and schists, have been derived from sediments. The bedding in these rocks, as well as the schistosity, strikes generally northeast-southwest. The igneous rocks intruded into them are generally elongated in the same direction and, where metamorphosed, the structural elements also strike northeast-southwest. The cleavage and bedding in the slates and the bedding in the Triassic sedimentary rocks strike in the same direction. As these rocks differ considerably in resistance to erosion, structural control of the topography is considerable.

At some time during the interval between the last part of the Triassic period and the first part of the Cretaceous period, the area was eroded to a low-lying plain of little relief, save for a few monadnock hills. Widely spaced trunk streams, meandering across the area, moved sluggishly in wide floodplains. There is little doubt that this peneplane sloped to the east and southeast and that the streams discharged into the Atlantic Ocean. Subsequently, the peneplane was uplifted and probably tilted slightly so that the southeastward slope was increased. The present altitude of the upland surface in the western and northwestern part of the Greensboro area is about 1,200 feet, whereas the altitude along the southeastern edge is about 500 feet. After the area was uplifted the streams began to cut down rapidly, forming narrow, steep-walled valleys. The main streams probably followed more or less the channels of the former streams, in many places, however, cutting off the old meanders and in general straightening and shortening the courses. Between these main streams some of the smaller streams followed parallel courses.

¹ Fenneman, Nevil M., *Physiographic divisions of the United States: Assoc. Am. Geographers Annals*, vol. 18, no. 4, p. 290, 1928.

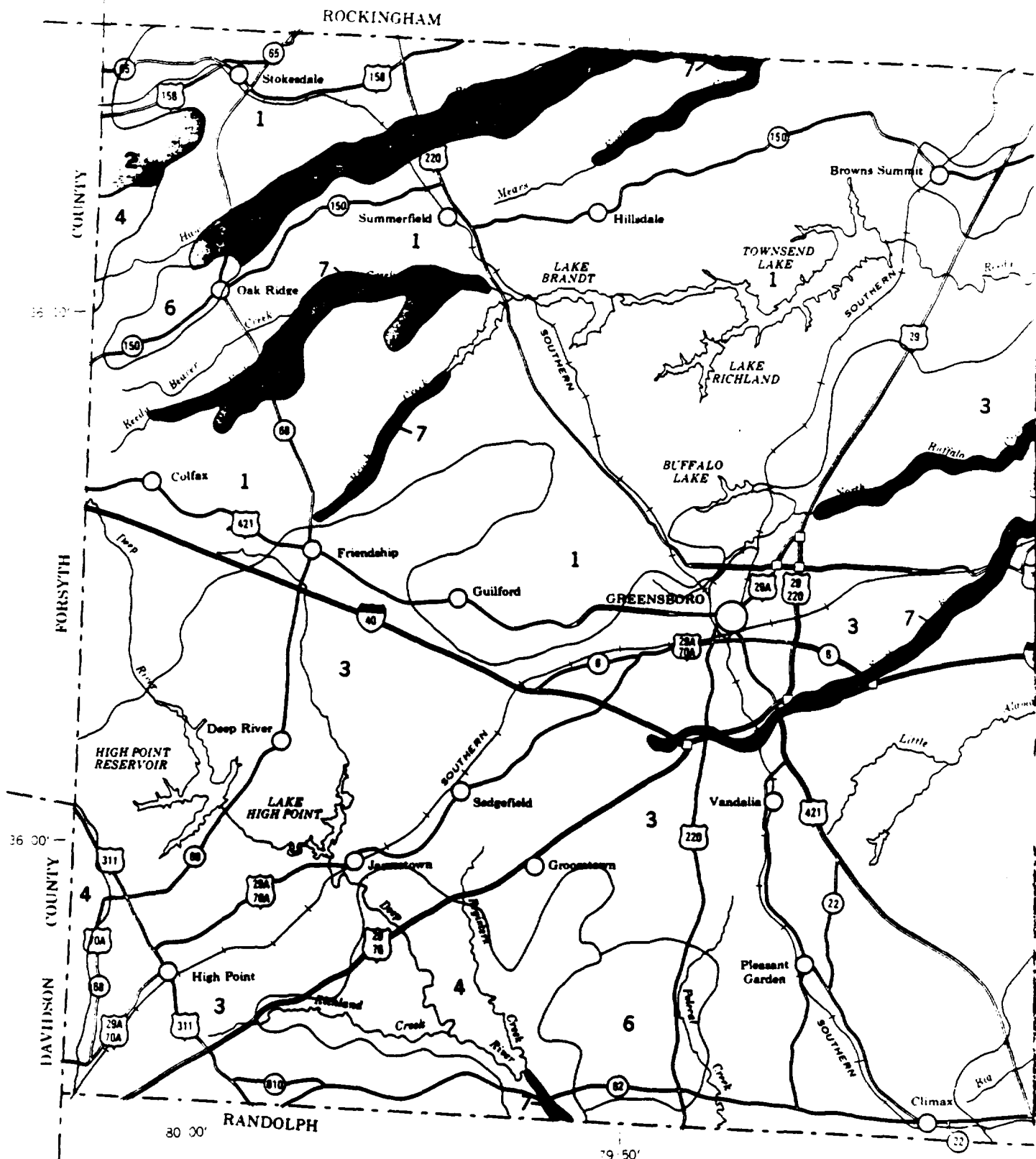
SOIL SURVEY OF Guilford County, North Carolina



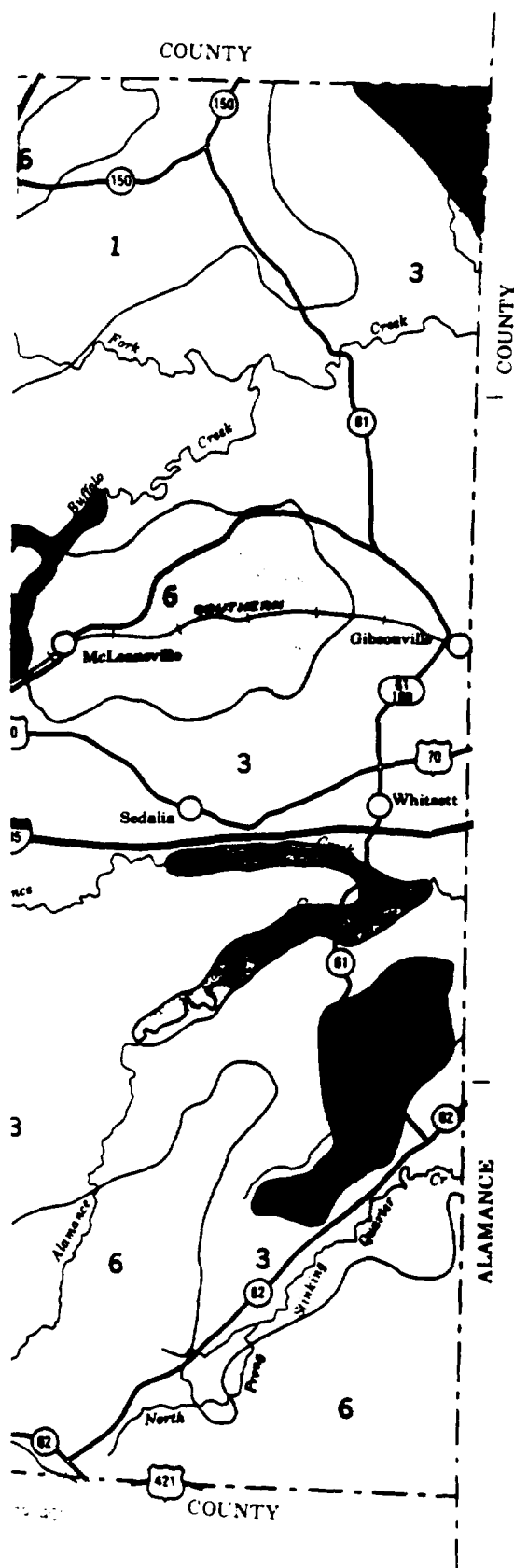
**United States Department of Agriculture
Soil Conservation Service**

In cooperation with

**Board of Commissioners, Guilford County, North Carolina, and
North Carolina Agricultural Experiment Station**



Each area outlined on this map consists of more than one kind of soil. The map is thus meant for general planning rather than a basis for decisions on the use of specific tracts.



SOIL ASSOCIATIONS

- 1 CECIL-MADISON association: Gently sloping and sloping, well drained soils that have a sandy clay loam, clay loam, and clay subsoil; on uplands.
- MADISON-CECIL association: Strongly sloping to steep, well drained soils that have a sandy clay loam, clay loam, and clay subsoil; on uplands.
- 3 ENON-MECKLENBURG association: Gently sloping and sloping, well drained soils that have a sandy clay loam, clay, and clay loam subsoil; on uplands.
- WILKES-ENON association: Sloping to steep, well drained soils that have a sandy loam, clay loam, sandy clay loam, or clay subsoil; on uplands.
- CORONACA-MECKLENBURG association: Gently sloping and sloping, well drained soils that have a clay or clay loam subsoil; on uplands.
- 6 APPLING-VANCE-HELENA association: Gently sloping to sloping, well drained and moderately well drained soils that have a sandy clay loam, sandy clay, clay, and clay loam subsoil; on uplands.
- CHEWACLA-WEHADKEE-CONGAREE association: Nearly level, well drained to poorly drained soils that have a sandy loam, loam, silt loam, clay loam, and silty clay loam subsoil; on flood plains.

Compiled 1976

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GUILFORD COUNTY BOARD OF COMMISSIONERS
NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION
GENERAL SOIL MAP
GUILFORD COUNTY, NORTH CAROLINA

Scale 1:190,080
1 0 1 2 3 4 Miles

North Carolina Geologic Survey, 1985
Geologic Map of North Carolina
(Partial Copy)



longly foliated; minor
and hornblende gneiss
megacrystic, abun-
and gradational with
ist, and amphibolite
fic tuffs and flowrock
d basaltic to andesitic
includes hypabyssal
ed dacitic to rhyolitic
mafic and intermedi-
andalusite, kyanite, or
d sillimanite; includes

65-325 my; 11,9) —
tonic Suite (Western
intrusives

onian to Silurian, 385-
Gold Hill, Kannapolis,

ian, 404 my; 9) — In-

ian to Ordovician, 399-
fecklenburg, and Wed-

ve to weakly foliated;

21) — Poorly foliated,

ed to massive

Foliated to massive

bro, metadiorite, and

dunite and peridotite;
mafic rock. Only larger

crystic, well foliated;



MADKIN FORMATION — Metamorphosed sandstone, and siltstone, interbedded with mafic and intermediate metavolcanic flows and tuffs



METAMUDSTONE AND META-ARGILLITE — Thin to thick bedded; bedding plane and axial-planar cleavage common; interbedded with meta-sandstone, metaconglomerate, and metavolcanic rock
CZmd₃ - Floyd Church Formation
CZmd₂ - Cid Formation
CZmd₁ - Tillery Formation } (southwest of Asheboro)



MAFIC METAVOLCANIC ROCK — Metamorphosed basaltic flows and tuffs, dark green to black; interbedded with felsic and intermediate metavolcanic rock and metamudstone
CZmv₁ - Cid Formation (southwest of Asheboro)



FELSIC METAVOLCANIC ROCK — Metamorphosed dacitic to rhyolitic flows and tuffs, light gray to greenish gray; interbedded with mafic and intermediate metavolcanic rock, meta-argillite, and metamudstone
CZfv₂ - Cid Formation (southwest of Asheboro)
CZfv₁ - Uwharrie Formation (at Asheboro and to south)



INTERMEDIATE METAVOLCANIC ROCK — Metamorphosed andesitic tuffs and flows, medium to dark grayish green; minor felsic and mafic metavolcanic rock



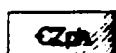
METAVOLCANIC ROCK — Interbedded felsic to mafic tuffs and flowrock



METAVOLCANIC-EPICLASTIC ROCK — Metamorphosed argillite, mudstone, volcanic sandstone, conglomerate, and volcanic rock

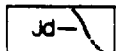


VOLCANIC METACONGLOMERATE — Includes metagraywacke and metamudstone

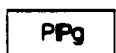


PHYLLITE AND SCHIST — Locally laminated and pyritic; includes phyllonite, sheared fine-grained metasediment, and metavolcanic rock. In Lilesville granite aureole, includes hornfels (CZph₁), and biotite gneiss and schist (CZbg)

INTRUSIVE ROCKS



DIABASE — Dikes, gray to black



GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite



PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive



METAMORPHOSED QUARTZ DIORITE — Foliated to massive



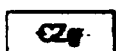
METAMORPHOSED GABBRO AND DIORITE — Foliated to massive



METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes



META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, soapstone, and other altered ultramafic rock. Only larger bodies shown



METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, 520-650 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains hornblende. Chapel Hill, Chatham, Farrington, Meadow Flats, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County suites

SYMBOLS



Anticline — Showing direction of plunge



Overturned anticline — Showing direction of dip of limbs



Syncline — Showing direction of plunge



Dike — Dashed where inferred from aeromagnetic data



Scarp — Hachured on downslope side

ontal movement

n downthrown side

National Water Summary 1984

**Hydrologic Events,
Selected Water-Quality Trends,
and Ground-Water Resources**

By United States Geological Survey

**United States Geological Survey
Water-Supply Paper 2275**

Table 2. Aquifer and well characteristics in North Carolina

[Ft = feet; gal/min = gallons per minute; mg/L = milligrams per liter. Sources: Reports of the U. S. Geological Survey and the North Carolina Department of Natural Resources and Community Development]

Aquifer name and description	Well characteristics				Remarks
	Depth (ft)		Yield (gal/min)		
	Common range	May exceed	Common range	May exceed	
Surficial aquifer: Sand, silt, clay, and gravel. Generally unconfined or partially confined.	40 - 65	175	25 - 200	500	Important aquifer in Sand Hills, northeast North Carolina, and Outer Banks. Water only slightly mineralized, except at depth in coastal areas where it is salty. Iron problems common. Equivalent to Columbia aquifer in Virginia.
Yorktown aquifer: Sands and clay. Partially confined or confined.	50 - 150	190	15 - 90	500	Includes Yorktown Formation and minor sands in Pungo River Formation. Important aquifer in northern Coastal Plain. Water is salty in coastal areas. Iron problems common. Equivalent to Yorktown-Eastover aquifer in Virginia.
Castle Hayne aquifer: Limestone, sandy limestone, and sand. Generally confined.	70 - 200	400	200 - 500	2,000	Includes Belgrade and River Bend Formations, Castle Hayne Limestone and Beaufort Formation. Castle Hayne Limestone is major aquifer in eastern Coastal Plain. Iron and hydrogen sulfide are problems near aquifer's western limit. Water is salty at depth near coast.
Cretaceous aquifer: Sand, clayey sand, and clay. Confined.	100 - 600	800	200 - 400	1,400	Includes Peedee, Black Creek, and Cape Fear Formations. Most widely used aquifer in Coastal Plain. Water has low mineral content. Iron problems common. Water is salty at depth in eastern Coastal Plain. Equivalent to Potomac aquifer in Virginia and Black Creek and Middendorf aquifers in South Carolina.
Crystalline rock aquifer: Crystalline igneous, metasedimentary and metavolcanic rock. Semiconfined to confined.	75 - 200	300	5 - 35	200	Large well yields dependent on interception of fractures; sustained yields dependent on thickness of saturated regolith overlying fractured-rock aquifer. Dissolved solids average about 170 mg/L. Water slightly acidic and may be corrosive. Locally high in iron and silica.

water corrosive. The aquifer generally is unconfined to partially confined throughout most of the Coastal Plain, but where it is more than 50 ft thick, water usually is confined in the deeper parts due to differences in lithology.

YORKTOWN AQUIFER

The Yorktown aquifer is present at shallow depths in the northern Coastal Plain. A few high-producing wells tap the Yorktown. Elizabeth City in Pasquotank County draws 1.3 Mgal/d from a well field that taps the aquifer. Water in the Yorktown aquifer generally has dissolved-solids concentrations of less than 500 mg/L and hardness of less than 300 mg/L as calcium carbonate.

CASTLE HAYNE AQUIFER

The Castle Hayne aquifer is the most productive aquifer in North Carolina. Wells that yield more than 1,000 gallons per minute (gal/min) can be readily developed in this aquifer and yields may exceed 2,000 gal/min. The Castle Hayne is the major source of freshwater in the southeastern coastal area where nearly all other aquifers contain some saltwater. Water from the Castle Hayne aquifer usually has a hardness ranging from 80 to 300 mg/L as calcium carbonate (Wilder and others,

1978) and requires treatment for some uses. It commonly contains concentrations of silica higher than 50 mg/L. The aquifer generally is confined, except near its western limit where it is unconfined or partially confined.

CRETACEOUS AQUIFER

The Cretaceous aquifer is the principal aquifer in much of the central and southern Coastal Plain. The aquifer has only moderate hydraulic conductivity but is very thick. For this reason, a number of well fields in the Cretaceous aquifer are able to produce more than 1 Mgal/d. Water from the Cretaceous aquifer typically is soft with hardness commonly less than 20 mg/L as calcium carbonate. The water occasionally contains concentrations of fluoride higher than 1.5 mg/L, the maximum limit for public supplies in this area. The aquifer is confined throughout its areal extent.

CRYSTALLINE ROCK AQUIFER

The crystalline rock aquifers of the Piedmont and Blue Ridge provinces consist generally of fractured crystalline igneous and metamorphic rock that has low porosity and, therefore, little storage capacity. Well yields are sustained by water stored in the saturated regolith that overlies the frac-

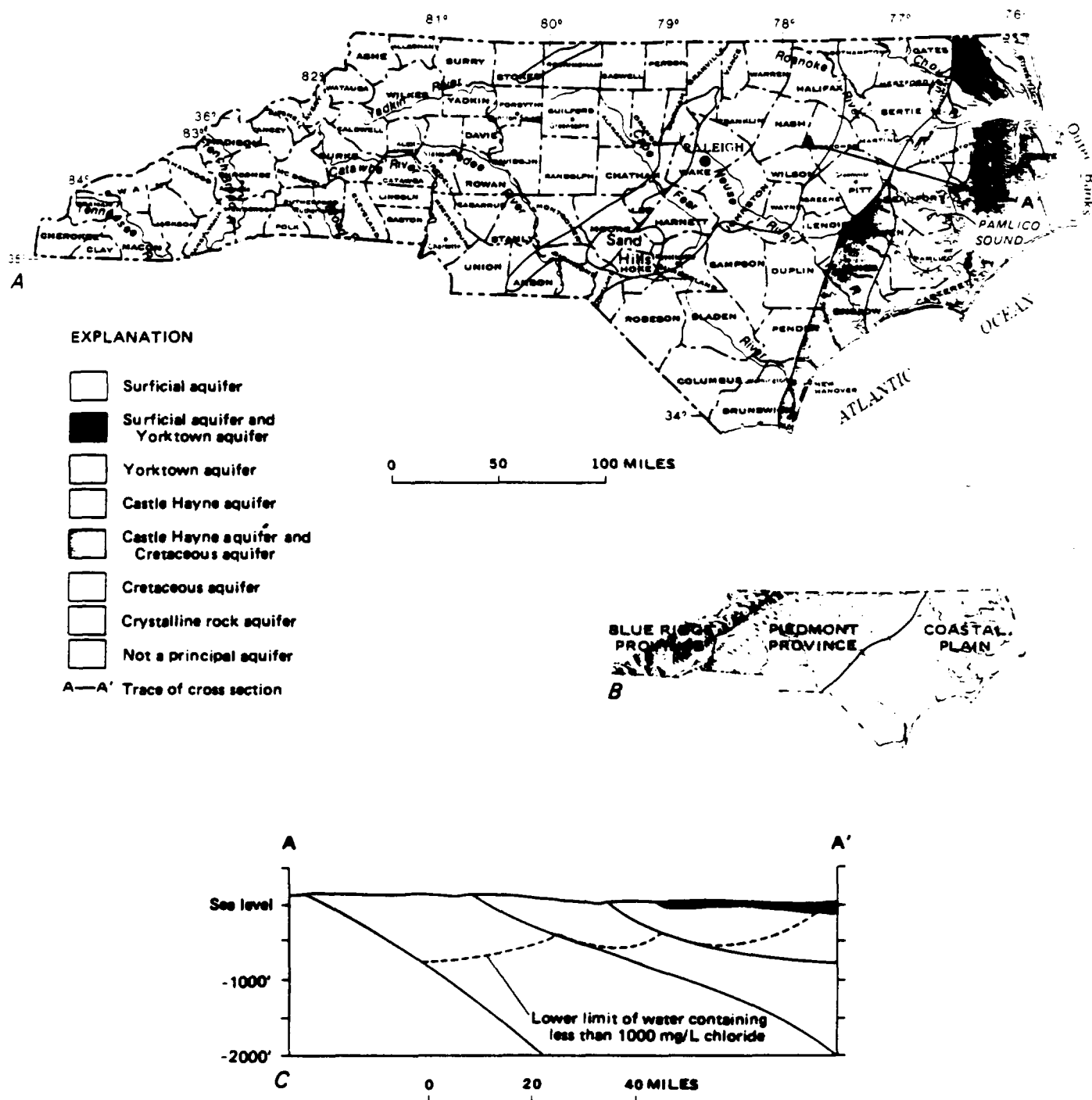


Figure 1. Principal aquifers of North Carolina. A, Geographic distribution. B, Physiographic diagram and divisions. C, Generalized cross section (A-A'), Coastal Plain. (See table 2 for more detailed description of aquifers. Sources: A, C, compiled by R. W. Coble from U.S. Geological Survey and North Carolina Department of Natural Resources and Community Development files. B, Fenneman, 1938; Raisz, 1954.)

tured bedrock. Success in constructing high-yield wells in this terrane depends on interception of water-bearing fracture systems that are overlain by saturated regolith. The chance of intercepting interconnected fractures is greatest in valleys and draws and least on ridges and hilltops. The average yield of wells in the crystalline rock is low—about 10 to 25 gal/min; however, yields of 200 gal/min or more are common. Water from the crystalline rock has a dissolved-solids concentration that is commonly about 170 mg/L and rarely exceeds 250 mg/L. Hardness generally is less than 100 mg/L as calcium carbonate. Because of the low buffering capacity of the water, corrosion can be a problem where the dissolved-solids concentration is less than 100 mg/L, even though pH values range from 6.3 to 6.7.

OTHER AQUIFERS

Triassic basins within the crystalline rock terrane of the Piedmont are areas from which the principal aquifers are absent (fig. 1); these basins consist of downfaulted blocks of crystalline rock. The basins are filled with clay, silt, fine-grained sandstone, and conglomerate, into which, in some places, basalt dikes have intruded. In this terrane, chances of constructing wells that yield more than a few gallons per minute are slight.

GROUND-WATER WITHDRAWALS AND WATER-LEVEL TRENDS

Major areas of ground-water withdrawals and water levels for selected observation wells near pumping centers are shown in figure 2. Generally, water levels decline in response to increases in pumping and recover when pumping is reduced. The hydrographs in figure 2 are representative of response of water levels to pumping in the Coastal Plain.

Water-level declines are not widespread in the surficial aquifer. Pumping 1 Mgal/d from a battery of shallow wells near Elizabeth City (near location 1, fig. 2) resulted in no measurable decline in water level in an observation well only 0.5 mile (mi) from the well field.

Only minor withdrawals are made from the Yorktown aquifer, which is readily recharged; thus, major areal water-level declines have not occurred in this aquifer. In the Belhaven area, withdrawals of 1.2 Mgal/d have resulted in less than 10 ft of decline in 16 years as shown by the hydrograph (location 5, fig. 2).

The largest ground-water withdrawals in North Carolina are from the Castle Hayne aquifer to dewater one mine and three quarries. About 65 Mgal/d are withdrawn from the confined Castle Hayne aquifer to reduce the artesian pressure, thereby facilitating dewatering of the overlying phosphate ore beds. Water levels in the Castle Hayne have declined 5 ft or more over an area of 1,300 square miles in response to this pumping (North Carolina Groundwater Section, 1974). The hydrograph for the Castle Hayne observation well, which is adjacent to the mining area (location 6, fig. 2), shows the rapid decline in water level when pumping began in 1965; stabilization of the water level was achieved in 1966 when the amount of induced leakage into the aquifer and a reduction in the amount of natural discharge from the aquifer compensated for the amounts of withdrawal. Changes in water level since the late 1960's are the result of fluctuating pumping rates and movement of the center of pumping as different parts of the ore body are mined. Other withdrawals from the Castle Hayne aquifer range from 11 to 18 Mgal/d at three quarries (locations 8, 11, 16, fig. 2). Because the Castle Hayne generally is unconfined in the area of the quarries, the geographic extent of the cones of depression is limited.

Widespread withdrawals from the Cretaceous aquifer have resulted in continuing declines in water levels in this aquifer throughout much of the Coastal Plain. The Cretaceous aquifer observation well (location 7, fig. 2) reveals that, after a well field was established near the observation well in 1968, water levels have declined more than 80 ft. Periods of water-level recovery and apparent stability are the result of short periods of decreased withdrawal rates. Water levels in the Cretaceous aquifer in the northern Coastal Plain have declined over an area of several thousand square miles in North Carolina because of withdrawals of 35 Mgal/d or more near Franklin, Va., 10 mi north of the State line. Declines near the line (location 26, fig. 2) have been as much as 45 ft since 1966 and are estimated to be as much as 100 ft since the early 1940's when extensive withdrawals began.

Water-level declines because of withdrawals from the crystalline rock aquifer are not widespread. Water pumped from the aquifer is supplied from the saturated portion of the overlying regolith. Recent research shows that withdrawals from the crystalline rock aquifer are reflected in local cones of depression in the overlying regolith (Daniel and Sharpless, 1983).

GROUND-WATER MANAGEMENT

The North Carolina Department of Natural Resources and Community Development (NRCD) implements most of the regulatory and planning procedures related to ground-water resources in the State. The Division of Environmental Management (DEM) within NRCD, has the major responsibility for ground-water management and regulatory programs. The Environmental Management Commission has authority over the permitting process and has made the Groundwater Section of DEM directly responsible for issuing permits for well construction and ground-water withdrawals. The Commission may designate an area as a Capacity-Use Area whenever the renewal and replenishment of the ground-water supplies are believed to be threatened. To date, the Commission has established only one such area in east-central North Carolina. However, additional areas are being considered for Capacity-Use Area designation.

A permit must be obtained from the Groundwater Section of DEM for (1) the construction of public-supply, industrial, and irrigation wells, (2) wells with a designed capacity of 100,000 gallons per day (gal/d) or greater, (3) wells to be used for injection, recharge, or disposal purposes, and (4) a well, other than a domestic well, located in a designated Capacity-Use Area (North Carolina Well Construction Act of 1967, Article 7-87-88). Injection wells for waste-disposal purposes currently are prohibited by State statute. All well drillers must register annually with NRCD and are required to report all well completion and abandonments.

In addition to a water-use permit in Capacity-Use Areas for users withdrawing more than 100,000 gal/d, NRCD also may require these users to adhere to established maximum withdrawal rates; the agency also can establish the minimum water levels resulting from pumping in certain areas.

The NRCD Division of Water Resources (DWR) collects data on the use of ground water statewide through its water-use data program. The DWR includes ground water in special regional or river basin water-resources studies with primary emphasis on the availability of ground water to meet water-supply needs for municipal and industrial use and for agricultural irrigation. The DWR also provides technical assistance to local government water utilities in considering ground water as a source of supply for public-water systems. Technical information on ground water is also available through the

Guilford County, N.C., Service Area Map (Water and Sewer). 1979, Revised August 24, 1987.

(Large map. On file at NUS Corporation.)

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.** F4-8803-58**DATE:** May 9, 1988**TIME:** 3:00 p.m.**DISTRIBUTION:**

Glass, E. H. Co. Landfill
Cone Mills Corp. - White Oak Plant

BETWEEN: Don Grubbs**OF:** Guilford Co. Water Dept.
Greensboro, N. C.**PHONE:** (919) 373-2055**AND:** Joan Dupont, NUS Corporation*Joan Dupont 5/9/88***DISCUSSION:**

The Guilford County Water Department obtains its water supply from Lake Townsend, Lake Higgins, and Lake Brandt. The county has two raw water lines; water from Lakes Brandt and Higgins is treated at Mitchell and water from Lake Townsend is treated at Townsend. Water from the different lines is probably combined somewhere in the distribution system; Mr. Grubbs said he would have to check pipeline maps to verify this. The water system has approximately 66,000 accounts (i.e., connections).

Inside the city limits of Greensboro, approximately 99.9% of the people are served by the county water system. Water is also provided by the county in its service areas outside the city limits; however, residents outside the city limits are not required to be hooked up to the water and sewer lines. Mr. Grubbs did not know how to find out which residents were not hooked up, other than going through individual account records.

From the dam at Lake Townsend, Guilford County's water service lines go south. Mr. Grubbs was not sure whether areas north of Guilford's service areas (i.e., south of Lakes Townsend and Jeannette) are on wells and septic tanks. Residences along service area boundary lines are served by county water. There are no other water service areas immediately north of Guilford County's water service areas; the next closest water service area to the north is located in Reidsville, in Rockingham County.

Lake Jeannette was formerly called Richland Lake, among other names. It is owned by the Cone Mills Corporation and has been developed by the company as a residential area. The residents are on Guilford County water.

Groundwater wells in the Greensboro area are approximately 150 feet deep or deeper; Mr. Grubbs has a well that is approximately 360 feet deep and supplies good water. He did not know the depth of the water table.

NUS CORPORATION AND SUBSIDIARIES

TELECON NOTE

CONTROL NO. TDD No. F4-8803-58

DATE: May 25, 1988

TIME: 11:15 a.m.

DISTRIBUTION: Glass, E. H. County Landfill
Cone Mills Corp., White Oak Plant

BETWEEN: Rev. McLean Faw

OF: Memorial Presbyterian Church
Greensboro, N. C.

PHONE: (919) 621-3220

AND: Joan Dupont, NUS Corporation

Joan Dupont 5/25/88

DISCUSSION:

Rev. Faw verified that the Memorial Presbyterian Church does have a well used for drinking water. The church is located at 2116 McKnight Mill, near Cone Blvd., which runs east-west and crosses Hwy. 29 North; the church is northeast of Cone Blvd.

ACTION ITEMS:

The U.S.G.S. Quadrangle for McLeansville, N. C., 7.5 minute series (topographic), 1952, photorevised 1968 shows North Buffalo Chapel located in the same area indicated above; however, North Buffalo Chapel is not listed in the 1987-1988 Greensboro telephone directory. It is possible that the Memorial Presbyterian Church presently occupies the North Buffalo Chapel property.

**NUS CORPORATION
SUPERFUND DIVISION****PROJECT NOTES****TO: Cone Mills, White Oak File****DATE: June 23, 1988****FROM: Joan Dupont****SUBJECT: Public water supply wells within 4 miles of Cone Mills Corp., White Oak Plant****REFERENCE: TDD No. F4-8803-57**

The locations of active community and non-community public water supply wells (PWS) within four miles of the White Oak Plant were determined by using the following references:

North Carolina Department of Human Resources, Environmental Health Section, Water Supply Branch.
Alphabetical within County Listings of Active Community and Non-Community PWS for Guilford County,
11/19/87.

Map of City of Greensboro, North Carolina, 1985.

U.S.G.S. Topographic Quadrangles for North Carolina: Browns Summit (1951, Photorevised 1968), McLeansville (1952, Photorevised 1968), Greensboro (1951, Photorevised 1968), and Lake Brandt (1951, Photorevised 1968).
7.5 minute series.

<u>Distance from Site</u>	<u>PWS Name</u>	<u>Address</u>	<u>Population Served</u>
within 1 mile	None		
within 2 miles	Memorial Presbyterian Church	2116 McKnight Mill	75
within 3 miles	None		
within 4 miles	None		
outside 4 miles	Country Club MHP	3820 McConnell Road	500
	McConnell Road Texaco	I-85 & McConnell Road	100
	Industrial Plastics	McConnell Road & I-85	80
	Mt. Pleasant Church Daycare	Rt. 6 Box 469-C	70
	Madison Elementary School	3600 Hines Chapel Road	490
	Lebannon Baptist Church	Hicone Road	25
	Poplar Grove Elementary	5500 Summit Avenue	190
	Sharpe Road Baptist Church	1908 Sharpe Road	275
	Reedy Fork Baptist Church	4718 Yanceyville Road	500

REP 0041 PHA 53
DNR - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH
ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE COMMUNITY PWS

PWS NAME	PWID	RES NAME	ADDRESS	CITY	ZIP	T	A	POP.SRV	S	PHONE
ARVAN TRAILER PARK	0241102	MR VAN HOOVER OR MR	5505 (b) (6)	JAMESTOWN	27282	C	A	147	6	(b) (6)
AUTUMN FOREST MOBILE HOM	0241103	(b) (6)		BROWNS SUMMIT	27214	C	A	716	6	(b) (6)
SON AIRE ACRES SUBD	0241193	(b) (6)		GREENSBORO	27407	C	A	112	6	(b) (6)
BOWER'S MEMORIAL REST HO	0241105	(b) (6)		GREENSBORO	27406	C	A	50	6	(b) (6)
BRADY'S MOBILE HOME PARK	0241104	(b) (6)		GREENSBORO	27406	C	A	77	6	(b) (6)
CEDAR PARK MHP	0241105	(b) (6)		GREENSBORO	27405	C	A	130	6	(b) (6)
CEDAR VALLEY MHP	0241152	(b) (6)		GREENSBORO	27416	C	A	298	6	(b) (6)
CIRCLE M MHP	0241106	(b) (6)		SUMMERFIELD	27358	C	A	312	6	(b) (6)
CLAPP'S NURSING CENTER	0241577	(b) (6)		PLEASANT GARDEN	27313	C	A	58	6	(b) (6)
COUNTRY CLUB MHP	0241143	(b) (6)		GREENSBORO	27405	C	A	508	6	(b) (6)
COUNTRY LIVING MHP	0241114	(b) (6)		HIGH POINT	27260	C	A	88	6	(b) (6)
COUNTRY SIDE MANOR	0241120	(b) (6)		STOKESDALE	27357	C	A	105	6	(b) (6)
COUNTRYSIDE	0241191	(b) (6)		GREENSBORO	27407	C	A	70	6	(b) (6)
COUNTRYSIDE VILLAGE RET	0241192	(b) (6)		STOKESDALE	27357	C	A	25	6	(b) (6)
CROWN MHP	0241112	(b) (6)		GREENSBORO	27407	C	A	305	6	(b) (6)
DANIELS MHP	0241109	(b) (6)		GREENSBORO	27406	C	A	172	6	(b) (6)
GIBSONVILLE TOWN OF	0241025	(b) (6)		GIBSONVILLE	27249	C	A	3,887	6	(b) (6)
GORDON'S TR PK	0241110	(b) (6)		GREENSBORO	27409	C	A	42	6	(b) (6)
GREENSBORO CAMPGROUNDS 2	0241500	(b) (6)		GREENSBORO	27406	C	A	252	6	(b) (6)
GREENSBORO, CITY OF	0241010	(b) (6)		GREENSBORO	27402	C	A	170,000	3	(b) (6)
GUILFORD COUNTY PRISON F	0241583	(b) (6)		GIBSONVILLE	27249	C	A	75	6	(b) (6)
GUILFORD COUNTY SUBSIDIA	0241109	(b) (6)		MCLEANSVILLE	27301	C	A	346	6	(b) (6)
GUILFORD COUNTY SUBSIDIA	0241188	(b) (6)		HIGH POINT	27260	C	A	200	6	(b) (6)
HADLEY MHP	0241113	(b) (6)		GREENSBORO	27406	C	A	74	6	(b) (6)
HICKORY RUN MHP	0241111	(b) (6)		GREENSBORO	27402	C	A	399	6	(b) (6)
HIDDEN VALLEY MHP	0241114	(b) (6)		GREENSBORO	27410	C	A	240	6	(b) (6)
HIGH POINT CITY OF	0241020	(b) (6)		HIGH POINT	27261	C	A	68,000	3	(b) (6)
HOLIDAY HILLS	0241197	(b) (6)		GREENSBORO	27407	C	A	182	6	(b) (6)
JAMESTOWN, TOWN OF	0241030	(b) (6)		JAMESTOWN	27282	C	A	2,250	3	(b) (6)
JONES MHP	0241119	(b) (6)		GREENSBORO	27406	C	A	88	6	(b) (6)
LAKE VILLAGE WATER SYSTE	0241161	(b) (6)		HIGH POINT	27263	C	A	35	6	(b) (6)
LAKEVIEW TR PK	0241121	(b) (6)		GREENSBORO	27406	C	A	96	6	(b) (6)
LAKEWOOD TRAILER PARK	0241122	(b) (6)		PLEASANT GARDEN	27313	C	A	105	6	(b) (6)
LEITMAN'S MOBILE HOME CO	0241124	(b) (6)		GREENSBORO	27406	C	A	102	6	(b) (6)
MEADOWVIEW MHP	0241125	(b) (6)		SUMMERFIELD	27358	C	A	147	6	(b) (6)
MONROE'S MHP	0241126	(b) (6)		GREENSBORO	27406	C	A	203	6	(b) (6)
MONTICELLO ESTATES	0241154	(b) (6)		GREENSBORO	27407	C	A	277	6	(b) (6)
O'HENRY MHP	0241128	(b) (6)		GREENSBORO	27406	C	A	75	6	(b) (6)
OAK RIDGE MILITARY ACADE	0241539	(b) (6)		OAK RIDGE	27310	C	A	205	6	(b) (6)
PLEASANT ACRES MHP	0241134	(b) (6)		GREENSBORO	27402	C	A	53	6	(b) (6)
PMH RENTALS MHP	0241135	(b) (6)		GREENSBORO	27407	C	A	64	6	(b) (6)
QUAIL MEADOWS	0241136	(b) (6)		GREENSBORO	27407	C	A	72	6	(b) (6)
ROCKCREEK MHP	0241139	(b) (6)		WHITSETT	27377	C	A	700	6	(b) (6)
SHADY LANE MOBILE COURT	0241151	(b) (6)		GREENSBORO	27405	C	A	90	6	(b) (6)
WALKER ESTATES	0241144	(b) (6)		GREENSBORO	27407	C	A	70	6	(b) (6)
WARD'S MOBILE HOME PARK	0241145	(b) (6)		GREENSBORO	27406	C	A	60	6	(b) (6)
WILLARDS TP	0241147	(b) (6)		GREENSBORO	27406	C	A	60	6	(b) (6)
WOOLARD'S TRAILER PARK	0241150	(b) (6)		GREENSBORO	27406	C	A	91	6	(b) (6)

REP 041 PHA 62 W04
DHR - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH
ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE COMMUNITY PWS

PWS NAME	PWID	RES NAME	ADDRESS	CITY	ZIP	T	A	POP.SRV	S	PHONE
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COUNTY =041	NUMBER OF RECORDS =	49	TOTAL POPULATION =	251,705						
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OHM - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH
ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE NON-COMM PWS

PWS NAME	PWID	RES NAME	ADDRESS	CITY	ZIP	T	A	POP.	SRV	S
AIR HARBOR AIR PORT	0241487			GREENSBORO	27406	N	A	30		
ALAMANCE COMMUNITY PARK	0241497			GREENSBORO	27406	N	A	25		
ALAMANCE MIDDLE SCHOL	0241541			GREENSBORO	27406	N	A	1,080		
ALLEN DISPLAYS INC	0241488			GREENSBORO	27409	N	A	75		
ANDREWS MEMORIAL BAPT CH	0241438			BROWN SUMMIT	27214	N	A	70		
ARNOLD STONE CO	0241469			COLFAX	27402	N	A	65		
BALLINGER ACADEMY	0241547			GREENSBORO	27410	N	A	75		
BANNER PHARMACY	0241552			STOKESDALE	27357	N	A	100		
BARBARA'S COUNTRY KITCHEN	0241623			GREENSBORO	27406	N	A	140		
BARN DINNER THEATRE	0241547			GREENSBORO	27410	N	A	108		
BEL AIRE SANDWICH SHOP	0241558			GREENSBORO	27410	N	A	75		
BETHEL PRESBYTERIAN CH	0241422			MCLEANSVILLE	27301	N	A	150		
BLUE BELL INC	0241470			STOKESDALE	27357	N	A	170		
BONNIE KAY SEAFOOD	0241559			GREENSBORO	27406	N	A	400		
BORN CLAY PRODUCTS	0241471			PLEASANT GARD	27313	N	A	80		
BRIGHT'S MEMORIAL BAPTIST	0241423			MCLEANSVILLE	27405	N	A	400		
BRIGHTWOOD BAPTIST CHURCH	0241621			GREENSBORO	27405	N	A	182		
BRIGHTWOOD CHRISTIAN SCH	0241411			GREENSBORO	27405	N	A	60		
BRIGHTWOOD INN	0241606			WHITSETT	27249	N	A	75		
BROWN SUMMIT SCHOOL	0241410			BROWN SUMMIT	27214	N	A	280		
BUR MILL COUNTRY CLUB	0241560			GREENSBORO	27410	N	A	1,400		
BURLINGTON INDUSTRIES	0241472			STOKESDALE	27357	N	A	200		
CALVARY BAPTIST CHURCH	0241437			SUMMERFIELD	27358	N	A	75		
CALVARY CHRISTIAN CHURCH	0241444			GREENSBORO	27406	N	A	45		
CAMP HERMAN BAPTIST CHURCH	0241445			GREENSBORO	27214	N	A	100		
CAMP UHARRIE	0241624			JAMESTOWN	27282	N	A	175		
CARLSON FARPS COUNTRY CL	0241544			GREENSBORO	27408	N	A	700		
CAROLINA STEEL CORP-COLF	0241473			GREENSBORO	27420	N	A	90		
CECIL'S PLACE	0241566			RANDLEMAN	27317	N	A	75		
CEDAR CREST GOLF COURSE	0241504			MCLEANSVILLE	27301	N	A	80		
CEDARWOOD SWIMMING POOL	0241492			JAMESTOWN	27282	N	A	240		
CENTER UNITED METHODIST	0241440			GREENSBORO	27406	N	A	160		
CENTRE FRIENDS MEETING	0241424			GREENSBORO	27406	N	A	300		
CH OF JESUS CHRIST LAY O	0241549			COLFAX	27235	N	A	340		
CHARITY BAPTIST CHURCH	0241452			GREENSBORO	27410	N	A	140		
CHURCH OF GOD OF PROPHEC	0241625			HIGH POINT	27260	N	A	200		
COLFAX SCHOOL	0241489			COLFAX	27235	N	A	415		
COMMUNITY BAPTIST CHURCH	0241439			GREENSBORO	27406	N	A	150		
COMMUNITY FOOD STORE	0241626			SUMMERFIELD	27358	N	A	100		
COMMUNITY IN CHRIST PRES	0241425			GREENSBORO	27406	N	A	225		
CONCORD FRIENDS MEETING	0241515			GREENSBORO	27406	N	A	25		
COUNTYLINE TEXACO	0241601			REIDSVILLE	27320	N	A	25		
CROSS OF CHRIST LUTHERAN	0241426			GREENSBORO	27410	N	A	125		
DANIEL R HOEBS R D	0241488			GREENSBORO	27406	N	A	50		
DAWN ACRES GOLF COURSE	0241506			STOKESDALE	27357	N	A	25		
DEEP RIVER GOLF COURSE	0241508			GREENSBORO	27409	N	A	25		
DIXON CHILD CARE	0241627			BROWN SUMMIT	27214	N	A	25		
E K'S TOUCH A COUNTRY	0241574			GREENSBORO	27406	N	A	50		
EASTERN GUILFORD SCHOOL	0241409			GIBSONVILLE	27248	N	A	750		

DNR - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH
ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE NON-COMM PWS

PWS NAME	PWID	RES NAME	ADDRESS	CITY	ZIP	T	A	POP.	SRV	S	PHONE
EASTERN HILLS CHRISTIAN	0241432	(b) (6)		HIGH POINT	27260	N	A	100	G		(b) (6)
ELKS CLUB # 1155	0241628			HIGH POINT	27260	N	A	700	G		
FAIRFIELD GOLF COURSE	0241494			HIGH POINT	27263	N	A	25	G		
FAITH WESTLEYAN CHURCH PA	0241629			GREENSBORO	27406	N	A	100	G		
FAMILY DINING	0241554			STOKESDALE	27357	N	A	50	G		
FELLOWSHIP HALL	0241586			GREENSBORO	27415	N	A	80	G		
FELLOWSHIP PRESBYTERIAN	0241446			GREENSBORO	27410	N	A	100	G		
FIRST BAPTIST CHURCH	0241441			SUMMERFIELD	27358	N	A	636	G		
FLAT ROCK METHODIST CHUR	0241449			STOKESDALE	27357	N	A	50	G		
FLORENCE ELEMENTARY SCH	0241542			HIGH POINT	27260	N	A	250	G		
FOREMOST SCREEN PRINT DI	0241474			STOKESDALE	27357	N	A	150	G		
FOREST OAKS COUNTRY CLUB	0241561			GREENSBORO	27406	N	A	1,100	G		
FREDRICKSON MOTOR EXPRES	0241467			GREENSBORO	27407	N	A	100	G		
FRIENDLY CHAPEL F W BAPT	0241459			GREENSBORO	27401	N	A	30	G		
FRIENDLY RD INN	0241630			GREENSBORO	27410	N	A	100	G		
FRIENDSHIP GOLF	0241592			GREENSBORO	27406	N	A	150	G		
GARDEN OF PRAYER HOLINES	0241458			BROWN SUMMIT	27214	N	A	30	G		
GENERAL GREEN SCOUT RESE	0241490			BROWN SUMMIT	27214	N	A	400	G		
GENRS CORNER MARY	0241631			MONTICELLO	27214	N	A	180	G		
GREENS SUPPER CLUB	0241563			GREENSBORO	27410	N	A	100	G		
GREGORYS DRIVE-IN	0241564			GREENSBORO	27405	N	A	80	G		
GROOMETOWN METHODIST CHU	0241430			GREENSBORO	27407	N	A	75	G		
GROOMETOWN RD EXXON	0241591			GREENSBORO	27407	N	A	25	G		
GUILFORD COLLEGE BIBLE S	0241450			GREENSBORO	27410	N	A	250	G		
GUILFORD COLLEGE METH CH	0241428			GREENSBORO	27409	N	A	608	G		
GUILFORD WILDLIFE CLUB	0241501			GREENSBORO	27402	N	A	50	G		
HICKORY GROVE METH CH	0241447			GREENSBORO	27410	N	A	75	G		
HOGAN STONE PARK	0241543			PLEASANT GAR	27313	N	A	400	G		
HOUSE OF PRAYER	0241581			JAMESTOWN	27282	N	A	32	G		
I-85 TEXACO	0241600			GREENSBORO	27407	N	A	100	G		
INDUSTRIAL PLASTICS	0241477			GREENSBORO	27405	N	A	80	G		
INDUSTRIAL TRUCK SALES	0241637			GREENSBORO	27402	N	A	60	G		
JAMESTOWN PARK GRILL	0241632			JAMESTOWN	27282	N	A	25	G		
JAMESTOWN PRESBYTERIAN C	0241456			JAMESTOWN	27282	N	A	155	G		
JEFFERSON HOUSE	0241607			MCLEANSVILLE	27301	N	A	200	G		
JESSUP GROVE BAPTIST CHU	0241429			GREENSBORO	27406	N	A	175	G		
JULIAN TEXACO	0241602			JULIAN	27406	N	A	100	G		
LAKE JUNO PARK	0241498			LIBERTY	27298	N	A	200	G		
LARRY & FRANK'S DRIVE-IN	0241565			RANDLEMAN	27317	N	A	55	G		
LAUGHLIN ELEM SCHOOL	0241487			SUMMERFIELD	27358	N	A	350	G		
LEBANNON BAPT CHURCH	0241520			GREENSBORO	27406	N	A	25	G		
LEES TRUCK STOP	0241569			GREENSBORO	27405	N	A	100	G		
LOCUST GROVE BAPTIST CHU	0241416			BROWN SUMMIT	27214	N	A	300	G		
LONG'S REST HOME FOR THE	0241587			GREENSBORO	27407	N	A	25	G		
LONGVIEW GOLF COURSE	0241511			GREENSBORO	27410	N	A	75	G		
LUTHERAN CH OF THE RESUR	0241443			GREENSBORO	27410	N	A	100	G		
LYNWOOD LAKES BAPTIST CH	0241522			GREENSBORO	27406	N	A	40	G		
MADISON ELEPENTARY SCHOO	0241611			GREENSBORO	27301	N	A	490	G		
MCCONNELL RD TEXACO	0241594			GREENSBORO	27405	N	A	100	G		

NAME - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH
ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE NON-COMP PWS

PWS NAME	PWID	RES NAME	ADDRESS	CITY	ZIP	T	A	POP.	SRV	S	PHONE
MCLEANSVILLE BAPTIST CHU	0241415			MCLEANSVILLE	27301	M	A	350	G		
MCLEANSVILLE EXXON	0241595			MCLEANSVILLE	27301	M	A	50	G		
MCLEANSVILLE SCHOOL	0241406			MCLEANSVILLE	27301	M	A	725	G		
MCLEANSVILLE SHOPPING CE	0241570			MCLEANSVILLE	27301	M	A	125	G		
MEMORIAL PRESBYTERIAN CH	0241657			GREENSBORO	27405	M	A	75	G		
RIBWAY BAPTIST CHURCH	0241455			JAMESTOWN	27282	M	A	180	G		
MITCHELL'S GROVE UNITED	0241414			HIGH POINT	27260	M	A	300	G		
MONTECELLO COUNTRY CLUB	0241499			BROWN SUMMIT	27214	M	A	50	G		
MONTECELLO SCHOOL	0241405			BROWN SUMMIT	27214	M	A	250	G		
MONTECELLO W/CM OF CHRIS	0241474			BROWN SUMMIT	27214	M	A	125	G		
MOORE'S SUPERMARKET	0241439			HIGH POINT	27260	M	A	25	G		
MOOSE LODGE #685	0241572			GREENSBORO	27402	M	A	100	G		
MORIAN METHODIST CHURCH	0241517			GREENSBORO	27406	M	A	150	G		
NT HOPE CHURCH OF CHRIST	0241435			WHITSEY	27377	M	A	50	G		
NT HOPE PENTECOSTAL MOLI	0241434			GREENSBORO	27301	M	A	50	G		
NT HOPE SHELL	0241596			MCLEANSVILLE	27381	M	A	25	G		
NT HOPE TEXACO	0241597			MCLEANSVILLE	27301	M	A	25	G		
NT PLEASANT CHURCH DAY C	0241584			GREENSBORO	27403	M	A	70	G		
NT FRIEND'S PLACE DAY CA	0241633			GREENSBORO	27405	M	A	25	G		
MATHANIEL GREEN SCHOL	0241538			LIBERTY	27298	M	A	450	G		
MEESSES SAUSAGE CO	0241485			GREENSBORO	27407	M	A	75	G		
RENEWARDERS FRIEND MEETIN	0241630			GREENSBORO	27410	M	A	508	G		
MOATH WEST HIGH JR HIGH	0241536			GREENSBORO	27403	M	A	1,576	G		
NORTH WEST JR HIGH	0241612			GREENSBORO	27403	M	A	1,500	G		
NORTHPEAK HIGH SCHOOL	0241537			GREENSBORO	27402	M	A	2,000	G		
OAK RIDGE DAY CARE & KD	0241388			OAK RIDGE	27310	M	A	55	G		
OAK RIDGE ELEMENTARY SCH	0241535			OAK RIDGE	27300	M	A	200	G		
OAK RIDGE FIRST BAPT CH	0241424			OAK RIDGE	27310	M	A	85	G		
OAK RIDGE SWIM CLUB	0241491			OAK RIDGE	27310	M	A	140	G		
OAK SPRING BAPTIST CHURC	0241451			STOKESDALE	27357	M	A	25	G		
OAKVIEW ESTATES RECREATI	0241589			HIGH POINT	27260	M	A	200	G		
OUT OF DOOR MART	0241482			KERNERSVILLE	27284	M	A	25	G		
PARKERS CAFE	0241553			STOKESDALE	27357	M	A	50	G		
PEACE LUTHERAN CHURCH	0241453			GIBSONVILLE	27249	M	A	75	G		
PHILLIPS PETROL CO GORO	0241638			GREENSBORO	27402	M	A	30	G		
PIEDMONT DRAG STRIP	0241502			GREENSBORO	27405	M	A	200	G		
PINEY LAKE	0241496			GREENSBORO	27406	M	A	45	G		
PLEASANT GARDEN BAPTIST	0241451			PLEASANT GAR	27313	M	A	1,107	G		
PLEASANT GARDEN CLINIC	0241580			PLEASANT GAR	27313	M	A	70	G		
PLEASANT GARDEN COMMUNITY	0241483			PLEASANT GAR	27313	M	A	50	G		
PLEASANT GARDEN ELER SCH	0241533			PLEASANT GAR	27313	M	A	400	G		
PLEASANT GARDEN METHODIS	0241617			PLEASANT GAR	27313	M	A	670	G		
PLEASANT GARDEN SHOPPING	0241480			PLEASANT GAR	27313	M	A	50	G		
POINTER FOOD PRODUCTS	0241475			PLEASANT GAR	27313	M	A	150	G		
POPLAR GROVE ELEMENTARY	0241532			PLEASANT GAR	27313	M	A	190	G		
QUAKER LAKE CONFERENCE C	0241489			GREENSBORO	27405	M	A	125	G		
RAINES BI RITE	0241634			CLIMAX	27233	M	A	25	G		
REEDY FORK BAPT CHURCH	0241419			GREENSBORO	27410	M	A	500	G		
RENOBETH UNITED METHODIS	0241465			BROWN SUMMIT	27214	M	A	250	G		

PWS NAME	PHID	RES NAME	(b) (6)	CITY	ZIP	T	A	POP.	Srv	S	PHONE
RENA BULLOCK ELEMENTARY	0241534			GREENSBORO	27406	N	A	500	6		(b) (6)
RICHMOND ENGINEERING CO.	0241478			COLFAX	27235	N	A	30	6		
ROSE CHILD DAY CARE	0241585			GREENSBORO	27410	N	A	40	6		
SANDY RIDGE GOLF COURSE	0241507			COLFAX	27235	N	A	25	6		
SARAH RESTAURANT	0241556			KERNERSVILLE	27284	N	A	25	6		
SCARLETTES SUNOCO	0241599			SUMMERFIELD	27359	N	A	50	6		
SEDALIA ELEMENTARY SCHOO	0241531			RUR	27342	N	A	370	6		
SEDFIELD LAKE METHODIS	0241448			GREENSBORO	27407	N	A	35	6		
SEDFIELD PRESBYTERIAN	0241464			GREENSBORO	27407	N	A	100	6		
SEDFIELD SWIM & RACKET	0241493			GREENSBORO	27407	N	A	200	6		
SHADY GROVE WESLEYAN CAM	0241635			HIGH POINT	27262	N	A	225	6		
SHARPE ROAD BAPTIST CHUR	0241463			GREENSBORO	27406	N	A	275	6		
SMILLELAON GOLF COURSE	0241512			BURLINGTON	27215	N	A	70	6		
SHINING LIGHT BAPT CH	0241518			GREENSBORO	27407	N	A	25	6		
SMITH RICHARDSON FOUNDAT	0241571			GREENSBORO	27401	N	A	70	6		
SOUTHEAST HIGH SCH	0241530			GREENSBORO	27406	N	A	2,100	6		
SOUTHEAST TRUCK STOP	0241550			CLIMAX	27233	N	A	100	6		
SOUTHERN GUILFORD HIGH S	0241529			GREENSBORO	27406	N	A	956	6		
SOUTHERN LIFE CLUB	0241481			JAMESTOWN	27282	N	A	40	6		
SOUTHERN PRIMARY SCHOOL	0241615			GREENSBORO	27405	N	A	450	6		
SOUTHWEST ELEMENTARY SCH	0241617			HIGH POINT	27260	N	A	325	6		
SOUTHWEST HIGH SCHOOL	0241616			HIGH POINT	27260	N	A	700	6		
STOKESDALE CHRISTIAN CHU	0241461			STOKESDALE	27357	N	A	300	6		
STOKESDALE ELEMENTARY SC	0241528			STOKESDALE	27357	N	A	258	6		
STOKESDALE UNITED METHOD	0241462			STOKESDALE	27357	N	A	371	6		
SUMMERFIELD 56 & REFRESH	0241604			SUMMERFIELD	27358	N	A	200	6		
SUMMERFIELD LUNCH & SHOP	0241603			SUMMERFIELD	27358	N	A	50	6		
SUMMERFIELD MIDDLE SCHOOL	0241527			SUMMERFIELD	27358	N	A	495	6		
SUMMERFIELD U/METHODIST	0241442			SUMMERFIELD	27358	N	A	300	6		
SUMNER BAPTIST CHURCH	0241460			GREENSBORO	27406	N	A	100	6		
SUMNER HILLS GOLF CLUB	0241495			HIGH POINT	27263	N	A	90	6		
SUMNER SCHOOL	0241525			GREENSBORO	27406	N	A	800	6		
TABERNACLE UNITED METHOD	0241523			GREENSBORO	27406	N	A	300	6		
TRAVEL INN	0241404			GREENSBORO	27407	N	A	50	6		
TRI CITY JUNIOR ACADEMY	0241609			HIGH POINT	27262	N	A	150	6		
TRIAD CATERING COMPANY	0241555			GREENSBORO	27409	N	A	25	6		
TWIN OAKS GOLF COURSE	0241585			JAMESTOWN	27282	N	A	75	6		
TWIN OAKS PENTECOSTAL CH	0241420			GIBSONVILLE	27249	N	A	35	6		
UNION GROVE BAPT CH	0241418			OAK RIDGE	27824	N	A	400	6		
UNION OIL SOUTH EAST TER	0241514			GREENSBORO	27419	N	A	25	6		
VANDALIA CHRISTIAN SCHOO	0241413			GREENSBORO	27406	N	A	320	6		
VANDALIA SCHOOL	0241412			GREENSBORO	27406	N	A	350	6		
VICKERY CHAPEL METH CH	0241519			GREENSBORO	27407	N	A	40	6		
VICKS 3A-B-Q	0241551			HIGH POINT	27260	N	A	25	6		
WEBSTERS KENCO SER	0241605			STOKESDALE	27357	N	A	25	6		
WOMANS CLUB OF HIGH POIN	0241636			HIGH POINT	27262	N	A	25	6		
WYSONG MILES CO	0241479			GREENSBORO	27420	N	A	96	6		

COUNTY =041 NUMBER OF RECORDS =

194

TOTAL POPULATION =

44,319

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.** F4-8803-58**DATE:** May 26, 1988**TIME:** 11:15 a.m.**DISTRIBUTION:**

Glass, E. H. County Landfill
Cone Mills Corp., White Oak Plant

BETWEEN: David Moorefield

OF: Water Administration,
Guilford Co. Water & Sewer Dept.,
Greensboro, N. C.

PHONE: (919) 373-2055**AND:** Joan Dupont, NUS Corporation

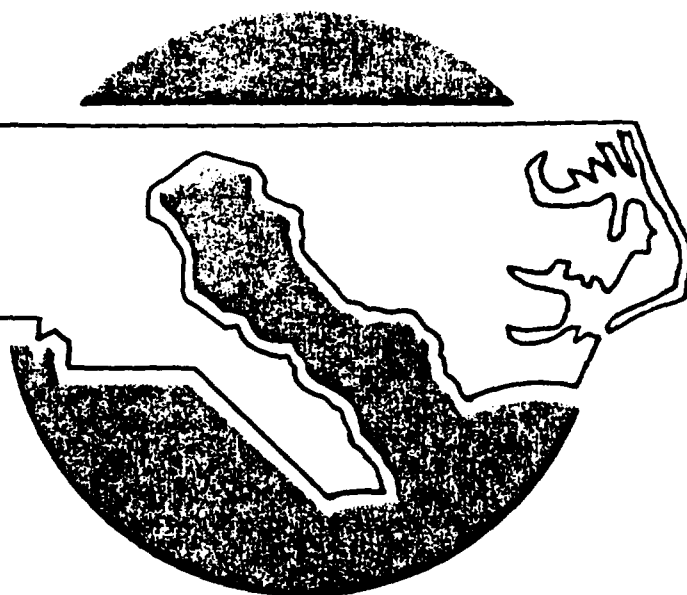
Joan Dupont 5/26/88

DISCUSSION:

Mr. Moorefield did not think that North Buffalo Creek east of the city of Greensboro is used recreationally; the creek is usually small, except after rainfall. Although some parks are located along North Buffalo Creek, they are mainly located within the city; he was not aware of any parks located on the creek northeast of the city. Likewise, he felt that there are probably no parks along Buffalo Creek. Mr. Moorefield was not aware of any drinking water intakes east of Greensboro on North Buffalo Creek or Buffalo Creek. Buffalo Creek water enters the Haw River (after passing through Reedy Fork - JJD); there may be intakes on the Haw River near Burlington in Alamance County.

GROUND-WATER SUPPLY POTENTIAL AND PROCEDURES FOR WELL-SITE SELECTION UPPER CAPE FEAR RIVER BASIN

cape
fear river
basin study
1981-83



**GROUND-WATER SUPPLY POTENTIAL
AND
PROCEDURES FOR WELL-SITE SELECTION
UPPER CAPE FEAR RIVER BASIN**

CAPE FEAR RIVER BASIN STUDY

Sponsored by

**North Carolina Department of Natural
Resources and Community Development
and
U. S. Water Resources Council**

**1155 Archdale Building
P. O. Box 27687
Raleigh, NC 27611
(919) 733-4064**

October, 1983

The average saturated thickness is estimated to be 35 feet and specific yield is estimated to be 0.20; substituting these values into the above equation the total available ground water is about 1.5 billion gallons per square mile.

Because nearly all the storage in the Piedmont ground-water system is in the regolith, the saturated thickness used in the calculation is the saturated thickness of the regolith. The quantity of water stored in the bedrock is small, by comparison, and was ignored for this calculation. The depth of well casing used in open-hole wells approximates the regolith thickness at a given well. Table 1 lists, by topographic position, the average casing depths for selected wells (those yielding 50 gal/min or more) in the study area. The average depth of casing for all wells is about 50 feet, with the greatest depth beneath hilltops and the least in valleys. Water-level data from these same wells indicate that the average depth to the water table is 15 feet. Thus, the average thickness of the saturated regolith is about 35 feet (50 feet - 15 feet = 35 feet).

The specific yield of 0.20, used in the above storage computation, was taken from the relation for northeastern Georgia shown in figure 5 (Stewart, 1962). Specific yield is the ratio of the volume of water a saturated rock (or other material) will yield by gravity, to the total volume of rock. The distinction between porosity and specific yield is important; porosity indicates the total volume of pore space in the rock while specific yield refers to the volume of water which can be drained from the saturated rock. The two values are not equal because some water is retained within openings by surface tension and as a film on the rock surfaces. Sufficient similarities exist between the Piedmont of northeastern Georgia and central North Carolina that this information can be used with reasonable limits of confidence. The depth of weathering, lithology of the underlying bedrock, and geologic structures are similar for both areas.



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE NC	02 SITE NUMBER D000756711

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Cone Mills Corp., White Oak Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 2420 Fairview Street				
03 CITY Greensboro		04 STATE NC	05 ZIP CODE 27405	06 COUNTY Guilford	07 COUNTY CODE 41	08 CONG DIST 6
09 COORDINATES LATITUDE 36 56 30. -		LONGITUDE 079 46 15. -				
10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN						

III. INSPECTION INFORMATION

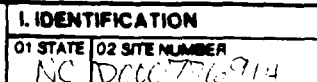
01 DATE OF INSPECTION 4, 19, 88 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1972 or earlier BEGINNING YEAR ENDING YEAR		UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR NUS Corp. (Name of firm) <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR (Name of firm) <input type="checkbox"/> G. OTHER (Specify)				

06 CHIEF INSPECTOR Chris Brown	08 TITLE Environmental Engineer	07 ORGANIZATION NUS Corp.	08 TELEPHONE NO. 1404938-7710
09 OTHER INSPECTORS Gus Shellman	10 TITLE Environmental Specialist	11 ORGANIZATION NUS Corp.	12 TELEPHONE NO. 1404938-7710
			()
			()
			()
			()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			()
None - Offsite reconnaissance			()
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 10:30 a.m.	19 WEATHER CONDITIONS
---	-------------------------------------	-----------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Lee Crosby	02 OF (Agency/Organization) NC DHS, Sol. & Haz. Waste Mgt. Branch		03 TELEPHONE NO. 19191733-2178
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Joan J. Dupont	05 AGENCY	06 ORGANIZATION NUS Corporation	07 TELEPHONE NO. (404)938-7710
			08 DATE 6, 23, 88 MONTH DAY YEAR



01 PHYSICAL STATES (Check all that apply) <input type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ <small>(Specify)</small>	02 WASTE QUANTITY AT SITE <small>(Measure of waste quantities must be independent)</small> TONS _____ CUBIC YARDS _____ NO. OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input checked="" type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
---	---	--

CATEGORY	SUBSTANCE NAME	Q1 GROSS AMOUNT	Q2 UNIT OF MEASURE	Q3 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSO	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

EPA and State of North Carolina files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000977-24

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 132 04 NARRATIVE DESCRIPTION
Dye wastes and/or solvents may have been disposed of onsite through burial and/or land application.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Discharge of solvents into onsite creek. NPDES permit violation.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Wastes reported as ignitable.

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
In areas of possible land application of wastes.

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION
Wastes may have been disposed of onsite through burial and/or land application.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 132 04 NARRATIVE DESCRIPTION
Through possible contamination of groundwater.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000700001

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runoff/Leaking Drums)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

NPDES permit violation; alleged discharge of solvents into onsite creek.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

EPA and State of North Carolina files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D000776-914

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES				Violation in 1972 or 1973
<input type="checkbox"/> B. UIC				
<input checked="" type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input checked="" type="checkbox"/> E. RCRA INTERIM STATUS				Withdrawn in 1983
<input checked="" type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND ?	24,000 lbs/yr.		<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	Unknown		<input type="checkbox"/> F. SOLVENT RECOVERY	
<input checked="" type="checkbox"/> G. LANDFARM ?	Unknown		<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

Onsite wastewater treatment plant for solvents

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DRUMS, LINERS, BARRIERS, ETC.

No documentation of liner in area of onsite burial/land application.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

Facility is surrounded by a fence, with gates and security personnel.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, soil test analysis, reports)

EPA and State of North Carolina files
NUS Corp. - Logbook F4-791 and photographs from offsite reconnaissance
and target survey, 4/19/88.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D000796714

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table border="0"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input type="checkbox"/>	B. <input type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table border="0"><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. 1.9 (mi) B. (mi)
SURFACE	WELL																
COMMUNITY A. <input type="checkbox"/>	B. <input type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 132	03 DISTANCE TO NEAREST DRINKING WATER WELL 1.9 (mi)			
04 DEPTH TO GROUNDWATER approx. 20 (m)	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN approx. 14 (m)	07 POTENTIAL YIELD OF AQUIFER ave 10-25 gpm	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

One non-community well located at a church; alternate drinking water source available
Small community located 2.5-3 miles from facility is assumed to use private wells;
no alternate source available. Wells in Greensboro area are generally at least 150 ft. deep.

10 RECHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS	11 DISCHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS
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IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
North Buffalo Creek	<input checked="" type="checkbox"/>	onsite (mi)
Buffalo Creek	<input type="checkbox"/>	approx. 11 (mi)
	<input type="checkbox"/>	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN	02 DISTANCE TO NEAREST POPULATION						
<table border="0"><tr><td>ONE (1) MILE OF SITE</td><td>TWO (2) MILES OF SITE</td><td>THREE (3) MILES OF SITE</td></tr><tr><td>A. NO. OF PERSONS</td><td>B. NO. OF PERSONS</td><td>C. NO. OF PERSONS</td></tr></table>	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	A. NO. OF PERSONS	B. NO. OF PERSONS	C. NO. OF PERSONS	< 0.1 (mi)
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE					
A. NO. OF PERSONS	B. NO. OF PERSONS	C. NO. OF PERSONS					
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING						
	< 0.1 (mi)						

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The area surrounding the facility is primarily residential.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC 100077694

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-8} cm/sec) ☒ B. RELATIVELY IMPERMEABLE
($10^{-4} - 10^{-8}$ cm/sec) ☐ C. RELATIVELY PERMEABLE
($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

____ (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

____ (ft)

05 SOIL pH

06 NET PRECIPITATION

3.5 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.7 (in)

08 SLOPE
SITE SLOPE
6.7 %

DIRECTION OF SITE SLOPE

N/NW

TERRAIN AVERAGE SLOPE

7.5 %

09 FLOOD POTENTIAL

SITE IS IN ____ YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. ____ (mi)

B. > 3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

____ (mi)

ENDANGERED SPECIES: ____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS: NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 0.6 (mi)

B. < 0.1 (mi)

C. ____ (mi) D. ____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, current analysis, reports)

EPA and State of North Carolina files; Guilford Co. Water Dept.
Topographic Quad. Map (7.5' series) for Greensboro, N.C. (1951, photorevised 1968)
NC DHR, Water Supply Branch - List of active community and non-community
PWS, Guilford Co., NC.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000976-914

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER	Unknown	NC DNRCD	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	?		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>NUS Corporation</u> <small>(Name of organization or individual)</small>
03 MAPS <input type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., data files, sample analysis, reports)

EPA and State of North Carolina files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC DCCC076-914

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME White Oak Plant Cone Mills Corporation, A		02 D+B NUMBER		06 NAME Cone Mills Corporation		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2420 Fairview Street		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Greensboro		06 STATE NC	07 ZIP CODE 27405	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		06 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		06 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		06 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
EPA and State of North Carolina files							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC DCL0774414

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		08 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		08 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		08 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		08 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC D000776-914

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC D00075-04

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

DC 1500076 014

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC DCC 791-911

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NPDES permit violation in 1972 or 1973. Company paid
\$15,000 fine. Regulatory/enforcement action by the
State of North Carolina.

III. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)

EPA and State of North Carolina files

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 – Site Location and Inspection Information
- Part 2 – Waste Information
- Part 3 – Description of Hazardous Conditions and Incidents
- Part 4 – Permit and Descriptive Information
- Part 5 – Water, Demographic, and Environmental Data
- Part 6 – Sample and Field Information
- Part 7 – Owner Information
- Part 8 – Operator Information
- Part 9 – Generator/Transporter Information
- Part 10 – Past Response Activities
- Part 11 – Enforcement Information

Part 1 – Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 – Waste Information and Part 3 – Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 – Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items 11-01, 02, 03, 04, and 06, Site Name and Location, 11-09 Coordinates, and 11-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *1-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
 - #11-01 Site Name: Enter the legal, common, or descriptive name of the site.
 - #11-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct I-295 & US 99; Post Rd, 5 mi W of Rt. 5.
 - #11-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
 - #11-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item 1-01.
 - #11-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
 - #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
 - #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
 - *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
 - #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III. Inspection Information**
- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
 - *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
 - #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
 - *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
 - III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
 - III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
 - III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
 - III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
 - III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
 - III-10 Title: Enter the titles of other parties participating in the inspection.
 - III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
 - III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties participating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- *I. Identification: Refer to Part 1-I.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- *II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
- *II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
- *II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- *III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- *III-02 Unit of Measure: Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
- III-03 Comments: Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 CAS Number: Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
- IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.
- IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.
- V. Feedstocks
- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 Description of Hazardous Conditions and Incidents
- *I. Identification: Refer to Part 1-I.
- II. Hazardous Conditions and Incidents:
- II-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.

- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

- *I. **Identification:** Refer to Part 1-1.

II. **Permit Information**

- II-01 **Type of Permit Issued:** Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02 **Permit Number:** Enter the permit number for each issued permit.
- II-03 **Date Issued:** Enter the date each permit was issued.
- II-04 **Expiration Date:** Enter the date each permit expires or expired.
- II-05 **Comments:** Enter any information which further explains the types of permits issued or status of the permits.

III. **Site Description**

- *III-01 **Storage/Disposal:** Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02 **Amount:** Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03 **Unit of Measure:** Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04 **Treatment:** If waste is treated at the site, check the appropriated box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- III-05 **Other:** If there are buildings on site, check this box.
- *III-06 **Area of Site:** Enter total area of site in acres.
- III-07 **Comments:** Enter any other pertinent information.

- IV. **Containment:** Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

- *IV-01 **Containment of Wastes:** Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
- IV-02 **Description of Drums, Diking, Liners, Barriers:** Provide a narrative description of the condition of containment measures at the site, e.g., waste adequately

quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

- V. **Accessibility:** Accessibility is an indicator of the potential for direct contact with hazardous substances.

- *V-01 **Waste Easily Accessible:** If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

- V-02 **Comments:** Additional information about accessibility to hazardous waste may be provided.

- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

- *I. **Identification:** Refer to Part 1-1.

II. **Drinking Water Supply**

- II-01 **Type of Drinking Water Supply:** Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- II-02 **Status:** Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03 **Distance to Site:** Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. **Groundwater**

- III-01 **Groundwater Use in Vicinity:** Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.

- III-02 **Population Served by Groundwater:** Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.

III-04 Depth to Groundwater: Enter the depth in feet to groundwater.

III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.

III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.

III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.

III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.

III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including usage, depth, and location relative to population and buildings.

III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.

III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.

IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.

V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.

V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.

VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.

VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.

VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.

VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.

VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.

VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.

VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.

VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.

VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.

VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.

VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

of an endangered species. Enter the name(s) of the endangered species.

- VI-13 Land Use in Vicinity: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

- VI-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

- VII. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

- *I. Identification: Refer to Part 1-1.

II. Samples Taken

- II-01 Number of Samples Taken: Next to each sample type enter the number of samples of that type taken.
- II-02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.
- II-03 Estimated Date Results Available: Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

- III-01 Type: Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.
- III-02 Comments: Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

- IV-01 Type: If photographs of the site have been taken, check the appropriate box(es) to indicate the type.
- IV-02 In Custody Of: Enter the name of the organization or person who has custody of the photographs.
- IV-03 Maps: Check the appropriate box to indicate that maps of the site area have been prepared or obtained.
- IV-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

- V. Other Field Data Collected: Provide a narrative description of any other field data collected.

- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

- *I. Identification: Refer to Part 1-1.

- II. Current Owner(s) - Parent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

- II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.
- II-02 D&B Number: Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.
- II-03 Street Address: Enter the business, mailing, or residential street address of the owner.
- II-04 SIC Code: If applicable, enter the owner's primary SIC Code.
- II-05 City: Enter the city of the owner's business, mailing, or residential address.
- II-06 State: Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.
- II-07 Zip Code: Enter the five digit zip code for the owner's business, mailing, or residential address.
- II-08 Name: If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.
- II-09 D&B Number: Enter the parent company's Dun and Bradstreet number.
- II-10 Street Address: Enter the business or mailing street address of the parent company.
- II-11 SIC Code: If applicable, enter the parent company's primary SIC code.
- II-12 City: Enter the city of the parent company's business or mailing address.
- II-13 State: Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.
- II-14 Zip Code: Enter the five digit zip code for the parent company's business or mailing address.
- III. Previous Owner(s): List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.
- III-01 Name: Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

- III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.
- III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- III-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. Realty Owner(s): Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
- IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.
- IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
- IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.
- IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
- IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.
- IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 8 Operator Information**
- *I. Identification: Refer to Part 1-I.
- II. Current Operator—Operator's Parent Company: Information on operators is applicable when the operator is not the owner.
- II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
- II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.
- II-03 Street Address: Enter the operator's business, mailing, or residential street address.
- II-04 SIC Code: If applicable, enter the operator's primary SIC Code.
- II-05 City: Enter the city of the operator's business, mailing, or residential address.
- II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.
- II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.
- II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.
- II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.
- II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. Previous Operator(s)—Previous Operators' Parent Companies
- III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.
- III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.
- III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
- III-05 City: Enter the city of the previous operator's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
- III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.
- III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

- III-10 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.

IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

*I. Identification: Refer to Part 1-I.

II. On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.

II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.

II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business or mailing street address of the on-site generator.

II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.

II-05 City: Enter the city of the on-site generator's business or mailing address.

II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.

II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.

III. Off-Site Generator(s): Those companies or agencies off-site who have generated waste which has been disposed at the site are listed here.

III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.

III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

III-03 Street Address: Enter the business or mailing street address of the off-site generator.

III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.

III-05 City: Enter the city of the off-site generator's business or mailing address.

III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.

III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.

IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.

IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.

IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.

IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.

IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.

IV-05 City: Enter the city of the transporter's business, mailing, or residential address.

IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.

IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.

V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 10 Past Response Activities

*I. Identification: Refer to Part 1-I.

II. Past Response Activities

II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.

II-02 Date: Enter the start date (or approximate date) of the activity.

II-03 Agency: Enter the name of the Agency responsible for the activity.

II-04 Description: Provide a brief narrative description of the activity.

III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

SITE INSPECTION REPORT

Part 11 Enforcement Information

*I. Identification: Refer to Part 1-I.

II. Enforcement Information

II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III.

Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7884-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-8	Potassium Dichromate
2. 7440-38-0	Antimony	15. 7788-98-7	Cupric Sulfate	28. 1310-68-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-8	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7847-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-8	Barium Sulfide	19. 7884-39-3	Hydrogen Fluoride	32. 7848-78-8	Stannic Chloride
7. 7726-95-8	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-98-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-8	Mercury	34. 7884-83-8	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 105-88-3	Toluene
10. 7782-50-6	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7848-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7897-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-82-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-68-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-8	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13587-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-88-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7884-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-8	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-08-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 29852-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene-Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13785-19-0	Calcium Chromate		
23. 7788-98-9	Ammonium Chromate	69. 582-01-8	Calcium Cyanide	113. 75-99-0	2,2-Dichloropropionic Acid
24. 3012-65-6	Ammonium Citrate, Dibasic	70. 26284-06-2	Calcium Dodecylbenzene Sulfonate	114. 62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate			115. 60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-08-2	Captan	117. 124-40-3	Dimethylamine
28. 6009-70-7	Ammonium Oxalate	73. 63-25-2	Carbaryl	118. 25184-54-5	Dinitrobenzene (all isomers)
29. 18919-19-0	Ammonium Silicofluoride	74. 1563-66-2	Carbofuran	119. 51-28-6	Dinitrophenol
30. 7773-06-0	Ammonium Sulfamate	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
31. 12136-76-1	Ammonium Sulfide	76. 56-23-6	Carbon Tetrachloride	121. 85-00-7	Diquat
32. 10196-04-0	Ammonium Sulfite	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
33. 14307-43-8	Ammonium Tartrate	78. 7782-50-5	Chlorine	123. 330-84-1	Diuron
34. 1762-95-4	Ammonium Thiocyanate	79. 108-90-7	Chlorobenzene	124. 27178-97-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 67-66-3	Chloroform	125. 115-28-7	Endosulfan (all isomers)
36. 628-83-7	Amyl Acetate	81. 7780-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	82. 2921-88-2	Chlorpyrifos	127. 108-98-8	Epichlorohydrin
38. 7847-18-9	Antimony Pentachloride	83. 1086-30-4	Chromic Acetate	128. 563-12-2	Ethion
39. 7789-61-9	Antimony Tribromide	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10025-91-9	Antimony Trichloride	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
41. 7783-56-4	Antimony Trifluoride	86. 10049-05-5	Chromous Chloride	131. 106-83-4	Ethylene Dibromide
42. 1309-64-4	Antimony Trioxide	87. 54-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43. 1303-32-8	Arsenic Disulfide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
44. 1303-28-2	Arsenic Pentoxide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	90. 1319-77-3	Creosol	135. 2944-87-4	Ferric Ammonium Oxalate
46. 1327-53-3	Arsenic Trioxide	91. 4170-30-3	Crotonaldehyde	136. 7706-08-0	Ferric Chloride



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

DATE: 8/11/88
SUBJECT: Conc Mills Corp. White Oak Pl. NC
FROM: Robert Morris *Robert Morris*
TO: File

On 8/11/88, I received a telephone call from Harold Bynum an attorney for Conc Mills Corp. Mr Bynum telephoned because he had received the access letter from EPA requesting site access by FIT for the White Oak Plt. for 8/22-25/88. He was concerned ~~that~~ that EPA wanted to do an SSI on the site because of recent publicity by local ^{news organizations} ~~newspapers~~ concerning the plant's water discharges (which Mr. Bynum says are under NPDES permits). I told him this was not the case. EPA is doing an SSI on the site to clarify and/or document information contained in the PA on the site. I agreed to send him a copy of the PA report.

cc: Mary Curnane, OIRC



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000776914

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Cone Mill Corp./White Oak Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 2420 Fairview Street			
03 CITY Greensboro	04 STATE NC	05 ZIP CODE 27405	06 COUNTY Guilford	07 COUNTY CODE 41	08 CONG DIST 6
09 COORDINATES LATITUDE 36 06 15. .		LONGITUDE 079 46 15. .			

10 DIRECTIONS TO SITE (Starting from nearest public road)

In Greensboro on I85 take US 29 North. Exit right on 16th Street. Turn left on 16th Street. Cone Mills White Oak Plant is located on left at intersection of 16th and Fairview Streets.

III. RESPONSIBLE PARTIES

01 OWNER (If known) Cone Mills Corp.		02 STREET (Business, mailing, residential)			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER ()		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11 / 17 / 80 ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____ / ____ / ____ ☐ C. NONE
MONTH DAY YEAR MONTH DAY YEAR

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 5 / 11 / 84 <input type="checkbox"/> NO MONTH DAY YEAR		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ -CONTRACTOR NAME(S): RCRA Compliance Inspection (Specify)			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1980 --- <input type="checkbox"/> UNKNOWN BEGINNING YEAR ENDING YEAR			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination onsite (in the plant and creek areas) and offsite via conveyance down the creek.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possibly surface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT T.A. Alspaugh	02 OF (Agency/Organization) Cone Mills		03 TELEPHONE NUMBER (919) 379-6579	
04 PERSON RESPONSIBLE FOR ASSESSMENT Lee Crosby	05 AGENCY NC DHS	06 ORGANIZATION Sol & Haz Waste Mgt. Br.	07 TELEPHONE NUMBER (919) 733-2178	08 DATE 1 / 8 / 85 MONTH DAY YEAR

LB



03 WASTE CHARACTERISTICS (Check all that apply)

<input checked="" type="checkbox"/> A. TOXIC	<input checked="" type="checkbox"/> E. SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input checked="" type="checkbox"/> B. CORROSIVE	<input checked="" type="checkbox"/> F. INFECTIOUS	<input type="checkbox"/> J. EXPLOSIVE
<input checked="" type="checkbox"/> C. RADIOACTIVE	<input checked="" type="checkbox"/> G. FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input type="checkbox"/> D. PERSISTENT	<input checked="" type="checkbox"/> H. IGNITABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE

EFA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Burial and/or land application of dye wastes and/or various solvents.

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Discharge of various solvents documented. Check for dye wastes also.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not suspected at this time.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Effluent discharge and land application or burial.

01 ☒ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

In areas of land application.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Through contamination of groundwater or surface water supplies although none are suspected at this time.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

In any on-site contaminated areas.

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Off-site movement of surface or groundwaters



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NC D000776914

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Not suspected at this time.

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Not suspected at this time.

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Not suspected at this time.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Discharge of substances in effluent and burial of dye wastes.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Off-site movement of surface or groundwaters

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

If hazardous substances have been disposed of in sanitary sewer.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

In discharge effluent and/or burial of dye wastes.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None suspected at this time.

III. TOTAL POPULATION POTENTIALLY AFFECTED: Unknown

IV. COMMENTS

Site Inspection should address all suspected on-site areas with emphasis on burial area (dye wastes) and discharge into creek.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis reports)

See "Part 2 - Waste Information"
"VI. Sources of Information"

5062 11 24
BROWNS SUMMIT

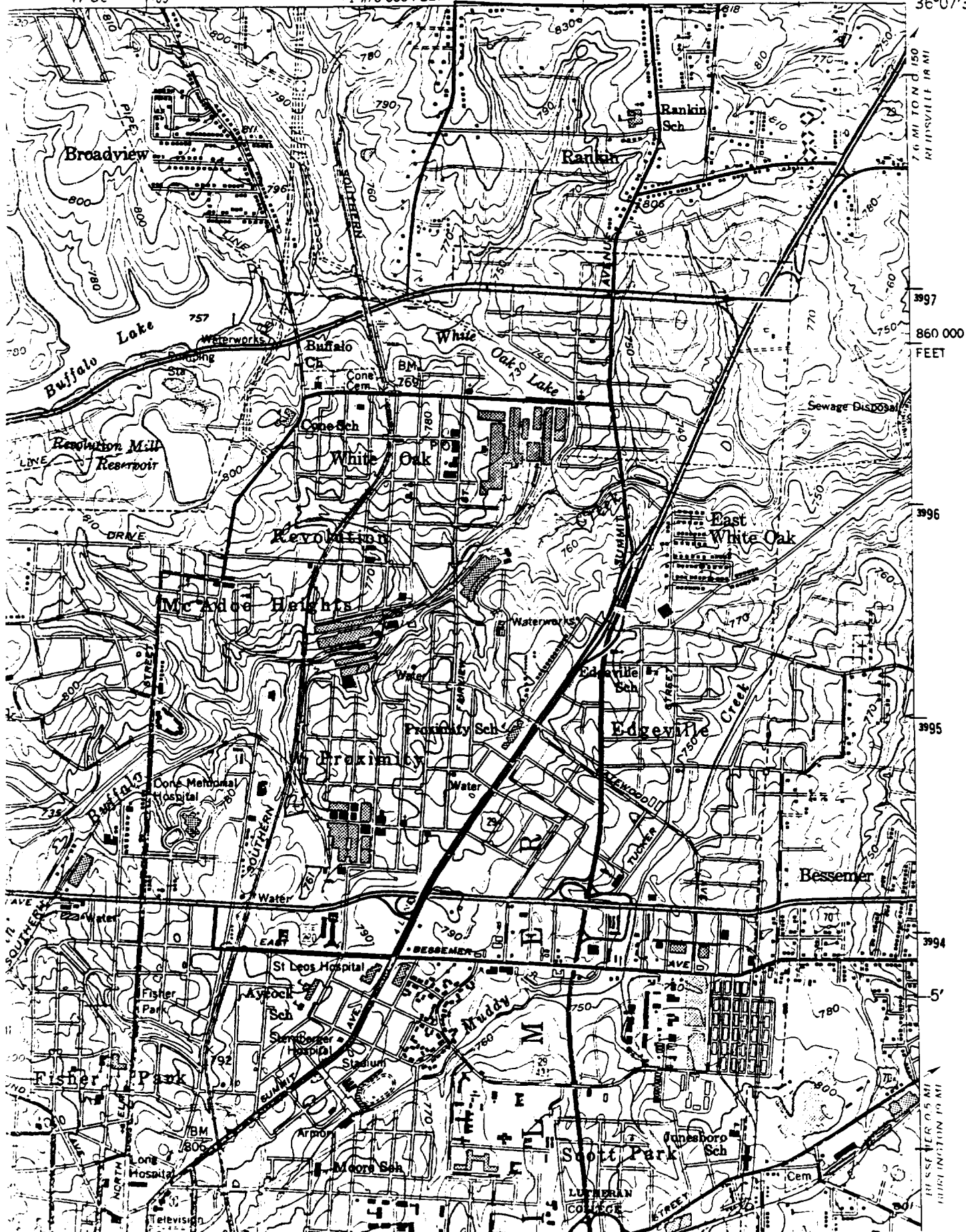
609

WHITE CLIFF HEIGHTS 0.3 MI REIDSVILLE 15 MI
2.5 MI TO U.S. 2

612

79°45'

36°07'30"





North Carolina Department of Human Resources

Division of Health Services

P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director
919/733-3446

February 22, 1985

Ms. Denise Bland
NC 3012 Project Officer
Air and Hazardous Material Division
345 Courtland Street, N.E.
Atlanta, GA 30365

Re: Preliminary Assessments Transmittal Letter

Dear Ms. Bland:

Enclosed are Preliminary Assessments completed for the following ERRIS sites in North Carolina:

Armstrong Rubber Co. Laurel Hill, NC	NC D082358854
Ashland Chemical Co. Charlotte, NC	NC D061263315
Ashland Chemical Co. Raleigh, NC	NC D088560032
Ashland Chemical Co. Greensboro, NC	NC D024599011
Ashland Petroleum Co. Greensboro, NC	NC D000828814
Cone Mills Corp./White Oak Plant Greensboro, NC	NC D000776914
Cranston Print Works Co. Fletcher, NC	NC D003150539
Diamond Shamrock Corp. Charlotte, NC	NC D062567623
Diamond Shamrock Martin-Marietta Quarry Castle Hayne, NC	NC D042890525

Ms. Denise Bland
February 22, 1985
Page 2

Firestone Tire & Rubber Co. NC D067191262
Wilson, NC

Gardner Mirror Corp. NC D003221462
North Wilkesboro, NC

Weyerhaeuser Company NC D071567259
Moncure, NC

Weyerhaeuser Co./Lewiston NC D052553641
Lewiston, NC

Weyerhaeuser Co. NC D991278540
Plymouth Wood Treating Plt.
Plymouth, NC

The Armstrong Rubber Company (NC D082358854) notified under RCRA for corrosive wastes that were placed in drums and a concrete collection pit. Armstrong claims that these wastes have a pH less than 12.5. Based on the proximity of this site and the characteristics of the suspected waste, this site is recommended for a Low Priority for site inspection. A Site Inspection should address any contamination in the area of the collection pit and spillage in the railcar loading/unloading area.

The Ashland Chemical Company (NC D061263315) of Charlotte notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of utilization of an on-site neutralization pit. This site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The Ashland Chemical Company (NC D088560032) of Raleigh notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of utilization of an on-site neutralization pit. The site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The Ashland Chemical Company (NC D024599011) of Greensboro notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of an on-site neutralization pit. This site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The Ashland Petroleum Company (NC D000828814) of Greensboro notified under RCRA for treatment and disposal of ignitable and lead wastes. Petroleum tank bottoms were land applied at this site. A Low Priority for Site Inspection is recommended to address the potential for lead contamination on this site.

Ms. Denise Bland
February 22, 1985
Page 3

The Cone Mills Corporation-White Oak Plant (NC D000776914) of Greensboro notified under RCRA for container and tank storage of ignitable wastes. An on-site waste dye disposal area is alleged on the southern side of Buffalo Creek. North Carolina Department NRCD has indicated presence of contamination at this site. A Medium Priority for Site Inspection is recommended to address the potential for dye-related contaminants (metals and solvents) on this site.

The Cranston Print Works Company (NC D003150539) of Fletcher notified under RCRA for container and tank storage and tank treatment of chromium wastes and electroplating wastes (F006, F007, F008, F009). Wastes have been disposed of via injection wells, lagoons, and landfilling. Groundwater contamination at this site has been mapped by N.C. Division of Environmental Management. A Medium Priority for Site Inspection is recommended to determine the extent of contamination.

The Diamond Shamrock Corporation (NC D062567623) of Charlotte notified under RCRA for treatment of corrosive wastes, spent non-halogenated solvents, and phenol, and storage of ignitable and corrosive wastes, 1,2-dichloroethane, ethylene oxide, and phenol. Approximately twenty additional materials (P and U-listed wastes) are also utilized either in the plant process or laboratory. A Low Priority for Site Inspection is recommended to address the potential for spillage in storage and loading/unloading areas.

The Diamond Shamrock Martin-Marietta Quarry (NC D042890525) of Castle Hayne notified under RCRA for disposal of chromium wastes into a surface impoundment (old quarry). Based on the geology of the area, a strong possibility for groundwater contamination exists. RCRA is currently investigating this facility in an attempt to establish if the levels of chromium indicate it to be hazardous. A Low Priority for Site Inspection is recommended to follow-up on RCRA activities at this site.

The Firestone Tire and Rubber Company (NC D067191262) of Wilson notified under RCRA for storage of ignitable wastes, resorcinol, and spent halogenated and non-halogenated solvents in containers (probably drums). Although no knowledge of any spills exists, a Low Priority for Site Inspection is recommended to investigate and determine if any suspected substances might be present.

The Gardner Mirror Corporation (NC D003221462) of North Wilkesboro generates hazardous wastes in the form of non-halogenated solvents used in cleaning mirror back coating equipment. Wastes used to be stored outside in 55-gallon drums. Now stored inside for better spill control. Although no knowledge of any spills exists, a Low Priority for Site Inspection is recommended to determine if any contaminants might be present in suspected locations.

The Weyerhaeuser Company of Moncure (NC D071567259) notified under CERCLA for suspected burial of 10-12 drums of lubricating oil on site by previous owner. A Low Priority for Site Inspection is recommended to determine if the alleged drums are present and if their contents are hazardous.

Ms. Denise Bland
February 22, 1985
Page 4

The Weyerhaeuser Company of Lewiston (NC D052553641) - now Louisiana Pacific Company - notified under RCRA for storage of bottom sediment sludge from the treatment of waste waters from wood preserving processes. Pentachlorophenol was used for wood treatment by Weyerhaeuser. It is alleged that slops from the dipping trough were discharged onto the ground on both sides of the dip trough. A Medium Priority for Site Inspection is recommended to determine the extent of contamination at this facility.

The Weyerhaeuser Company of Plymouth (NC D991278540) notified under RCRA for storage of bottom sediment sludge from the treatment of waste waters from wood preserving processes. Chromated copper arsenate (CCA) solution is used at this facility. Although no spills are known, a Medium Priority for Site Inspection is recommended to determine if contamination has occurred. This site produces a very large volume of treated wood.

Sincerely,

Lenox E. Bramble, Environmental Engineer
Solid and Hazardous Waste Management Branch
Environmental Health Section

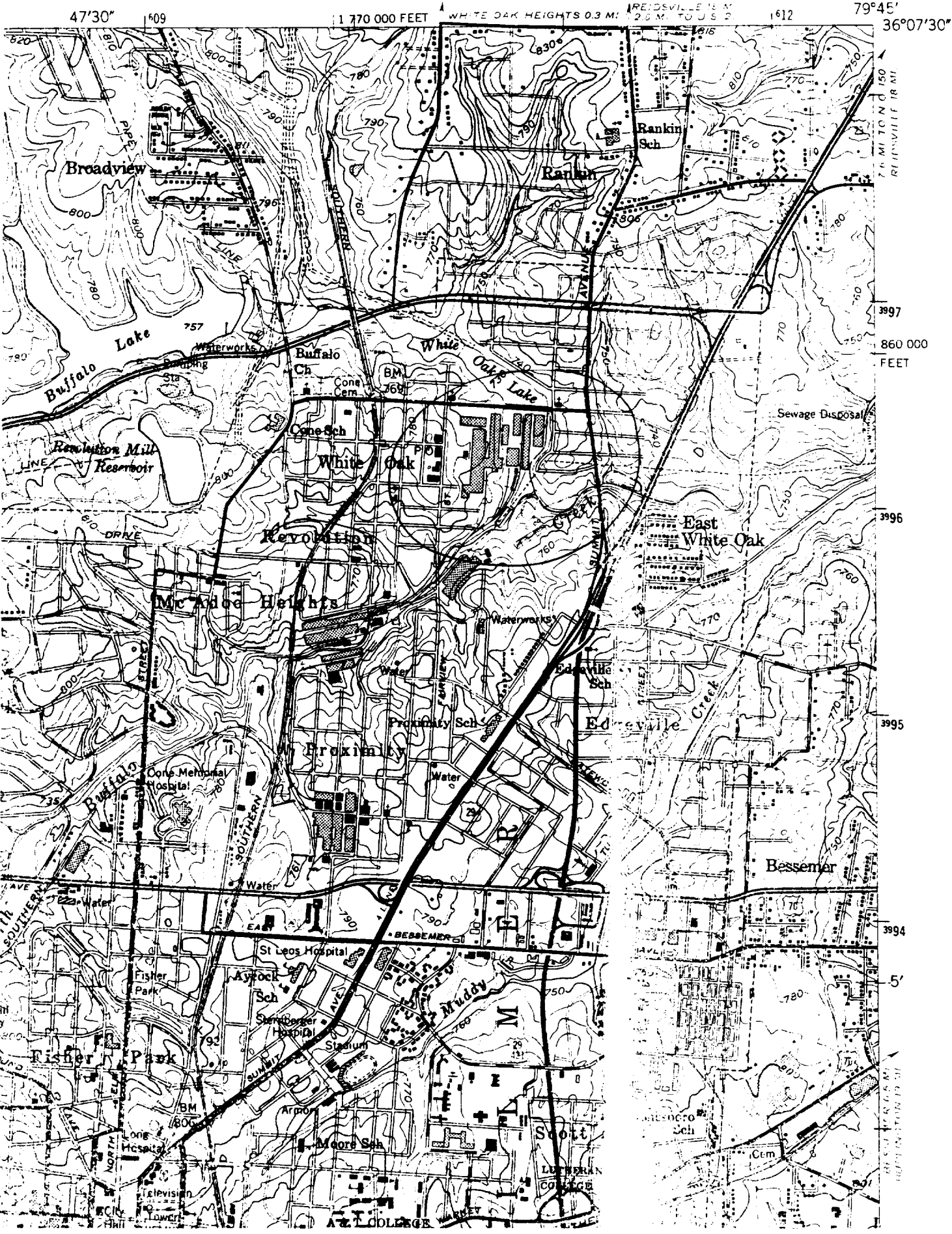
LEB/lw/2098A
Enclosures

GREENSBORO QUADRANGLE

NORTH CAROLINA-GUILFORD CO.

7.5 MINUTE SERIES (TOPOGRAPHIC)

5056 11 NW
(BROWNS SUMMIT)





FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY
		GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER											
NC D 0 0 0 7 7 6 9 1 4 3											

LABEL ITEMS	
I. EPA I.D. NUMBER	<div>RECEIVED EPA REGION 1 APR 12 10 07 AM '81 GREENSBORO, NC</div> <p>PLEASE PLACE LABEL IN THIS SPACE</p>
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column. If the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY											
1 CONE MILLS CORPORATION WHITE OAK PLANT											

IV. FACILITY CONTACT											
A. NAME & TITLE (last, first, & title)						B. PHONE (area code & no.)					
2 A.L.S.P.A.U.G.H. TOM MGR WATER & WASTE						919 379 6579					

V. FACILITY MAILING ADDRESS											
A. STREET OR P.O. BOX											
3 2420 FAIRVIEW STREET											
B. CITY OR TOWN											
4 GREENSBORO											
C. STATE											
NC											
D. ZIP CODE											
27405											

VI. FACILITY LOCATION											
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER											
5 2420 FAIRVIEW STREET											
B. COUNTY NAME											
GUILFORD											
C. CITY OR TOWN											
8 GREENSBORO											
D. STATE											
NC											
E. ZIP CODE											
27405											
F. COUNTY CODE (if known)											

VII. SIC CODES (4-digit, in order of priority)									
A. FIRST					B. SECOND				
7	2	2	1	1	(specify)	Weave	7		
					(specify)	Broadwoven fabric, cotton	7		
C. THIRD					D. FOURTH				
7					(specify)		7		
					(specify)		7		

VIII. OPERATOR INFORMATION									
A. NAME									
CONE MILLS CORPORATION									
B. Is the name listed in Item VIII-A also the owner?									
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)									
F - FEDERAL M - PUBLIC (other than federal or state) P (specify)									
S - STATE O - OTHER (specify)									
P - PRIVATE									
D. PHONE (area code & no.)									
9 1 9 3 7 9 6 2 2 0									
E. STREET OR P.O. BOX									
1 2 0 1 MAPLE STREET									
F. CITY OR TOWN									
GREENSBORO									
G. STATE									
NC									
H. ZIP CODE									
2 7 4 0 5									
IX. INDIAN LAND									
Is the facility located on Indian lands?									
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									

X. EXISTING ENVIRONMENTAL PERMITS									
A. NPDES (Discharges to Surface Water)					D. PSD (Air Emissions from Proposed Sources)				
9 N NC 0 0 0 0 8 7 6					9 P				
B. SIC (Underground Injection of Fluids)					E. OTHER (specify)				
9 U					(specify)				
C. RCRA (Hazardous Wastes)					E. OTHER (specify)				
9 R					(specify)				

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Integrated textile plant; fiber through finishing of broad woven fabric, all cotton and some cotton and synthetic blends.

XIII. CERTIFICATION (see instructions)									
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.									
A. NAME & OFFICIAL TITLE (type or print)					B. SIGNATURE			C. DATE SIGNED	
Harper J. Elam, III					H. J. Elam III			11/17/80	
Vice President & General Counsel									
COMMENTS FOR OFFICIAL USE ONLY									

FORM 3 RCRA
ENVIRONMENTAL PROTECTION AGENCY
HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER
FNC D 000 77 69 1 4 3

FOR OFFICIAL USE ONLY
APPLICATION APPROVED DATE RECEIVED (yr., mo., & day)
COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)
☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)
☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)
C 8 8 0 0 8 1 9

B. REVISED APPLICATION (place an "X" below and complete Item I above)
☐ 1. FACILITY HAS INTERIM STATUS
☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.
1. AMOUNT - Enter the amount.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	G
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

8 C DUP T/A C 1 12 14 15

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)			1. AMOUNT	2. UNIT OF MEASURE (enter code)
X-1	S 0 2	600	G	5			
X-2	T 0 3	20	E	6			
1	S 0 1	1000	G	7			
2	S 0 2	1000	G	8			
3				9			
4				10			

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE
POUNDS P
TONS T

METRIC UNIT OF MEASURE CODE
KILOGRAMS K
METRIC TONS M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

NCT2: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY																		
W N C D 0 0 0 7 7 6 9 1 4 2 1													W DUP 2 DUP																		
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																															
EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE												C. UNIT OF MEAS- URE (enter code)	D. PROCESSES																	
														1. PROCESS CODES (enter)										2. PROCESS DESCRIPTION (if a code is not entered in D(1))							
1	D	0	0	1	24000								P	S	01	S	02														
2																															
3																															
4																															
5																															
6																															
7																															
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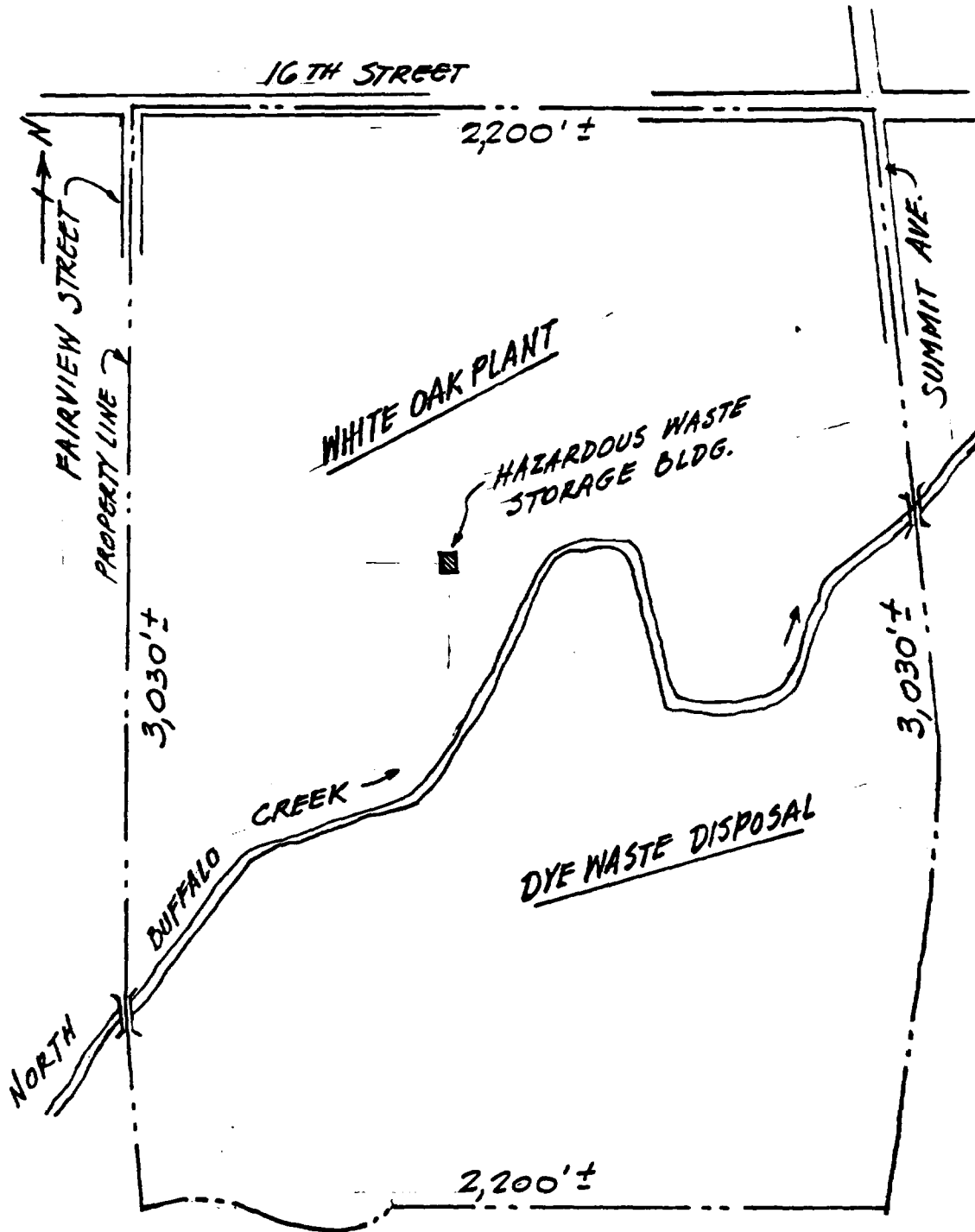
1. NAME OF FACILITY'S LEGAL OWNER																2. PHONE NO. (area code & no.)												
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3. STREET OR P.O. BOX										4. CITY OR TOWN							5. ST.		6. ZIP CODE									
C F											C G																	
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P. SIGNATURE
G. J. Elam

B. SIGNATURE

CONTINUE ON PAGE 5

V. FACILITY DRAWING (see page 4)



SCALE: 1"=500'

CONE MILLS CORP.
WHITE OAK PLANT
GREENSBORO, N.C.



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

November 5, 1984

Mr. T. A. Alspaugh
Cone Mills Corporation
1201 Maple Street
Greensboro, N.C. 27405

Dear Mr. Alspaugh:

As a follow-up to our telephone conversation on November 2, 1984, I would like to request information concerning the Cone Mills Corporation/White Oak Plant site in Greensboro, N.C.. The Solid and Hazardous Waste Management Branch is evaluating a list of potential problem sites compiled under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Program.

Please provide any documentation or explanations that would describe the following activities since the start-up of operations at your plant site:

1. Waste storage, treatment, and disposal practices of RCRA hazardous wastes. Include types, amounts, transporters, and disposal locations and dates for each waste.
2. Waste storage, treatment, and disposal practices for other toxic or hazardous substances not regulated by RCRA but designated as a hazardous substance under CERCLA (example PCBs). Include types, amounts, transporters, and disposal locations and dates for each waste.
3. Information concerning releases of CERCLA and/or RCRA hazardous substances both on your plant site, or off-site; such as spills of feedstocks, waste waters, materials at transfer areas, leaking storage tanks, and other waste handling and/or recovery areas with descriptions of any remedial actions undertaken.
4. Any chemical analysis results indicating soil, groundwater, or surface water contamination as a result of hazardous substance releases that have occurred. Identify locations of any groundwater monitoring wells or other sampling points used to monitor areas of potential concern.

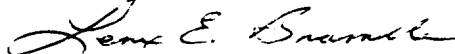
5. Provide a chronological history of site owners and/or operators where applicable. Identify date facility was established.
6. Include copies of any notifications of correspondence made to the United States Environmental Protection Agency or the State of North Carolina in reference to possible CERCLA site activities and/or releases.
7. Provide a general description of plant operations and processes.
8. Provide a list of permits issued to this site (example NPDES, RCRA, RCRA Interim Status). Include permit number, date issued and expiration date.

This information will be used to assess and process this site through the RCRA Section 3012 System. The information will be on file at the North Carolina Solid and Hazardous Waste Management Branch 3012 Office and copies will be forwarded to the United States Environmental Protection Agency, Region IV in Atlanta, Georgia, in the near future.

Your assistance in compiling this information is very much appreciated. Please contact me at (919) 733-2178 if you are not able to complete this information request within the next four weeks. I am enclosing information on the RCRA 3012/CERCLA Program for your use.

If you have questions or if I can be of any assistance, please contact me.

Sincerely,



Lenox E. Bramble
Environmental Engineer

Solid & Hazardous Waste Mgt. Branch
Environmental Health Section

LEB:lw/1299A



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

May 21, 1984

T. A. Alspauch
Cone Mills Corp White Oak Plant
2420 Fairview Street
Greensboro, NC 27405
EPA NUMBER: NCD000776914

Dear Mr. Alspauch:

The United States Environmental Protection Agency has granted the State of North Carolina Interim Authorization for Phase II Components A and B to operate the State's Hazardous Waste Management Program in lieu of the Federal Program under the RCRA.

Section 3007(a) authorizes access to facilities which handle hazardous waste. Access is granted to 'duly designated' officers or employees of the EPA (or State, if that State has a hazardous waste program authorized under section 3006 of the Act.)

Pursuant to section 3006 and N.C.G.S. 130-166.18, an inspection was conducted 05/11/84 by Mr. Joseph H. Deakins, Solid and Hazardous Waste Management Branch. The inspection revealed compliance with the regulations. This office wishes to thank you for your cooperation. Please do not hesitate to contact us if we may be of future assistance.

Sincerely,

O. W. Strickland, Head
Solid and Hazardous Waste
Management Branch
Environmental Health Section

copy: Joseph H. Deakins



11/18/84
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Date: 5-11-84

MEMORANDUM

TO: O. W. Strickland, Head
Solid & Hazardous Waste Management Branch

FROM: J. H. Hawkins
Waste Mgt. Spec.

NAME: Corn Mills Corp. White Oak Plant
2420 Fairview St. (City) Greensboro 27405

EPA ID No.: NEP000776914

CONTACT: T. A. ALSPAUGH
(print)

A RCRA (☒ Generator, () Transporter, () Interim Status, () Final Status,
compliance inspection was conducted on 5-11-84. The in-
mo/day/yr

spection can be classified as a () annual inspection, (Gen, Trans.),
() semi-annual inspection (TSD), (☒ follow-up inspection, () other,
specify (see instruction on back).

The above subject company was found (☒ in full compliance () in violation
() all previous violations existing () previous violations corrected -
but new ones exist () previous violations existing along with additional
ones. (Note: You should complete a check sheet to signify the additional
violations).

A compliance date of _____ was established.
mo/day/yr

DHS 3218 3/84
Solid & Hazardous Waste



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

April 24, 1984

T. A. ALSPAUGH
Cone Mills Corp White Oak Plant
2420 Fairview Street
Greensboro, NC 27405
EPA NUMBER: NCD000776914

Dear T. A. ALSPAUGH:

The United States Environmental Protection Agency has granted the State of North Carolina Interim Authorization for Phase II Components A and B to operate the State's Hazardous Waste Management Program in lieu of the Federal Program under the RCRA.

Section 3007(a) authorizes access to facilities which handle hazardous waste. Access is granted to 'duly designated' officers or employees of the EPA (or State, if that State has a hazardous waste program authorized under section 3006 of the Act.)

Pursuant to section 3006 and N.C.G.S. 130-166.18, an inspection was conducted 04/09/84 by Mr. Joseph H. Deakins, Solid and Hazardous Waste Management Branch. The inspection revealed noncompliance in several areas. Attached is a copy of the inspection report which denotes the deficiencies.

A compliance date of 05/18/84 has been established for the correction of these deficiencies. If you have any questions pertaining to this subject, please contact Mr. William Paige, Environmental Chemist, at (919) 733-2178.

Sincerely,

O. W. Strickland, Head
Solid and Hazardous Waste
Management Branch
Environmental Health Section

copy: Joseph H. Deakins

GENERATOR INSPECTION FORM - PART 262

Name of Site
Cone Mills Corp White Oak Plant

EPA I.D.
NCD000776914

County
Guilford

Location
Greensboro

NC 27405

Inspection Date
04 / 09 / 84

Inspector
JOSEPH H. DEAKINS

Compliance Date
05 / 18 / 84

Facility Contact
T. A. ALSPAUGH

An inspection of your facility has been made this date and you are notified of the violations, if any, marked below with a cross (X).

SUBPART A - GENERAL

1. Hazardous Waste Determination (262.11)

- ☐ Subpart D waste (b)
- ☐ Subpart C waste (c)(1)(2)

2. EPA Identification Numbers

- ☐ EPA generator number (a)
- ☐ EPA transporter/facility (c)

SUBPART B - THE MANIFEST

3. General Requirements (262.20)

- ☐ proper manifest (a)
- ☐ permitted facility (b)

4. Required Information (262.21)

- ☐ document number (a)(1)
- ☐ generator identification (a)(2)
- ☐ transporter identification (a)(3)
- ☐ facility identification (a)(4)
- ☐ D.O.T. description (a)(5)
- ☐ total quantity (a)(6)
- ☐ certification (b)

5. Number of Copies (262.22)

- ☐ minimum number

6. Use of the Manifest (262.23)

- ☐ generator handwritten signature (a)(1)
- ☐ transporter signature/date (a)(2)
- ☐ retain copy (a)(3)
- ☐ copies to transporter (b)

SUBPART C - PRE-TRANSPORT REQUIREMENTS

- 7. Packaging (262.30)
 - ☐ D.O.T. compliance
- 8. Labeling (262.31)
 - ☐ D.O.T. compliance
- 9. Marking (262.32)
 - ☐ D.O.T. compliance (a)
 - ☐ 'HAZARDOUS WASTE' label (b)
- 10. Placarding (262.33)
 - ☐ D.O.T. compliance
- 11. Accumulation Time (262.34)
 - ☐ Subpart I; J (a)(1)
 - ☐ accumulation date (a)(2)
 - ☐ 'Hazardous Waste' (a)(3)
 - ☒ Subpart C; D (a)(4)*
 - ☐ personnel training (a)(4)
 - ☐ under remarks.

SUBPART D - RECORDKEEPING AND REPORTING

- 12. Recordkeeping (262.40)
 - ☐ manifest retention (a)
 - ☐ biennial/exception report (b)
 - ☐ test/waste analysis (c)
- 13. Biennial Reporting (262.41)
 - ☐ submitted (a)(1-6)
 - ☐ submitted (b)
- 14. Exception Reporting (262.42)
 - ☐ transporter contact (a)
 - ☐ exception report (b)(1)(2)

Remarks: 265.52(F) _____



DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Wm. R. Pyle
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

Date: 4-9-84

MEMORANDUM

TO: O. W. Strickland, Head
Solid & Hazardous Waste Management Branch

FROM: J. H. Perkins
Waste Mgt. Spec.

NAME: Cone Mills Corp, White Oak Plant
2420 Fairview St. (City) Greensboro 27405

EPA ID No.: NCD000776 912

CONTACT: T. A. ALSPAUGH
(print)

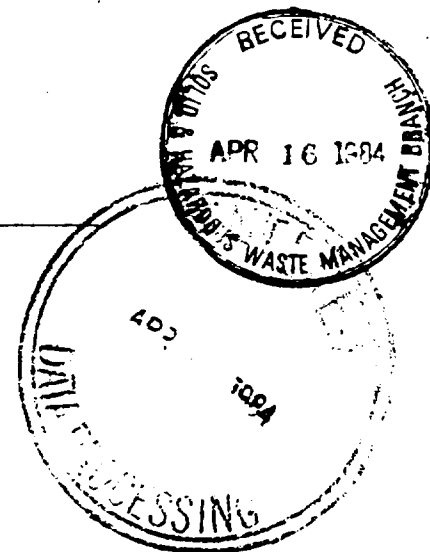
A RCRA (☒ Generator, () Transporter, () Interim Status, () Final Status,
compliance inspection was conducted on 4-9-84. The in-
mo/day/yr

spection can be classified as a (☒ annual inspection, (Gen, Trans.),
() semi-annual inspection (TSD), () follow-up inspection, () other,
specify (see instruction on back)

The above subject company was found () in full compliance (☒ in violation
() all previous violations existing () previous violations corrected -
but new ones exist () previous violations existing along with additional
ones. (Note: You should complete a check sheet to signify the additional
violations).

A compliance date of 5-18-84 was established.
mo/day/yr

DHS 3218 3/84
Solid & Hazardous Waste



GENERATOR INSPECTION FORM - PART 262

Name of Site Cone Mills Corp; White Oak Plant EPA I.D. NC-D000776914 County Guilford
 Location 2420 Fairview St., Greensboro Inspection Date 4-9-84 Signature of Inspector(s) J. H. Deal
 Compliance Date 5-18-84 27405 Signature of Facility Contact J. A. [Signature]

An inspection of your facility has been made this date and you are notified of the violations, if any, marked below with a cross (X).

SUBPART A - GENERAL

1. Hazardous Waste Determination (262.11)

- ☐ Subpart D waste (b)
☐ Subpart C waste (c)(1)(2)

2. EPA Identification Numbers

- ☐ EPA generator number (a)
☐ EPA transporter/facility (c)

SUBPART B - THE MANIFEST

3. General Requirements (262.20)

- ☐ proper manifest (a)
☐ permitted facility (b)

4. Required Information (262.21)

- ☐ document number (a)(1)
☐ generator identification (a)(2)
☐ transporter identification (a)(3)
☐ facility identification (a)(4)
☐ D.O.T. description (a)(5)
☐ total quantity (a)(6)
☐ certification (b)

5. Number of Copies (262.22)

- ☐ minimum number

6. Use of the Manifest (262.23)

- ☐ generator handwritten signature (a)(1)
☐ transporter signature/date (a)(2)
☐ retain copy (a)(3)
☐ copies to transporter (b)

SUBPART C - PRE-TRANSPORT REQUIREMENTS

7. Packaging (262.30)

- ☐ D.O.T. compliance

8. Labeling (262.31)

- ☐ D.O.T. compliance

9. Marking (262.32)

- ☐ D.O.T. compliance (a)
☐ "HAZARDOUS WASTE" label (b)

10. Placarding (262.33)

- ☐ D.O.T. compliance

11. Accumulation Time (262.34)

- ☐ Subpart I; J (a)(1)
☐ accumulation date (a)(2)
☐ "Hazardous Waste" (a)(3)
☒ Subpart C; (D) (a)(4)*
☐ personnel training (a)(4)*

*Cite specific violations of 40 CFR 265 under remarks

SUBPART D - RECORDKEEPING AND REPORTING

12. Recordkeeping (262.40)

- ☐ manifest retention (a)
☐ annual/exception report (b)
☐ test/waste analysis (c)

Corn W. Hs, White Oak Flt +
4-9-84

2

13. Annual Reporting (262.41)

- ☐ submitted (a)(1-6)
☐ submitted (b)

14. Exception Reporting (262.42)

- ☐ transporter contact (a)
☐ exception report (b)(1)(2)

REMARKS:

violation:

*265.52(f) - Content of contingency plan
evacuation plan*



Tom

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 12, 1983

Mr. Tom Alspaugh
Cone Mills Corp., White Oak Plant
2420 Fairview Street
Greensboro, NC 27405
NCD000776914

Dear Mr. Alspaugh:

Our administrative records indicate that your facility has voluntarily selected not to apply for a final status permit for the management of hazardous waste.

Administrative procedures for final permit decisions, as outlined in 40 CFR 124 and adopted in 10 NCAC 10F .0035, requires formal denial of a final status permit.

This notification constitutes formal denial of a final permit and termination of interim status for the treatment, storage for more than 90 days, and disposal of hazardous waste at your facility.

Your facility is further notified that there are substantial penalties for future hazardous management activity that requires a permit.

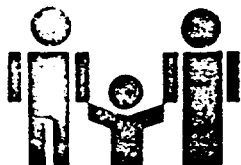
If we can be of any assistance or if you have any questions concerning this denial, please contact me.

Sincerely

O. W. Strickland, Head
Solid & Hazardous Waste Management Br.
Environmental Health Section

OWS:ct

cc: Steve Phibbs
William Paige



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

Tom A. Alspaugh
Cone Mills White Oak Plant
4100 Pleasant Garden Road
Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.

Tom A. Alspaugh
Page 2
July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602

Very truly yours,



O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Date: May 4, 1983

Mr. Tom Alspaugh
Cone Mills, Inc.
2420 Fairview St.
Greensboro, NC 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<input type="checkbox"/>	<input type="checkbox"/>	generator
<input type="checkbox"/>	<input type="checkbox"/>	transporter
<input type="checkbox"/>	<input type="checkbox"/>	treater
<input type="checkbox"/>	<input checked="" type="checkbox"/>	storer
<input type="checkbox"/>	<input type="checkbox"/>	disposer
<input type="checkbox"/>	<input type="checkbox"/>	small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is ☐ is not ☒ being cancelled.

Cordially,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn Braun

DHS Form 3048 3/82
Solid & Haz. Waste Mgt. Branch



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

March 21, 1983

Mr. T. A. Alspaugh
Cone Mills Corporation
2420 Fairview Street
Greensboro, NC 27405

RE: NCD000776914

Dear Mr. Alspaugh:

On March 3, 1983 Mr. Joe Deakins of the Solid and Hazardous Waste Management Branch conducted a RCRA re-inspection of your facility. You were found to be in compliance with the standards.

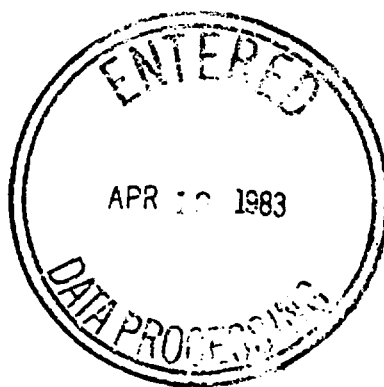
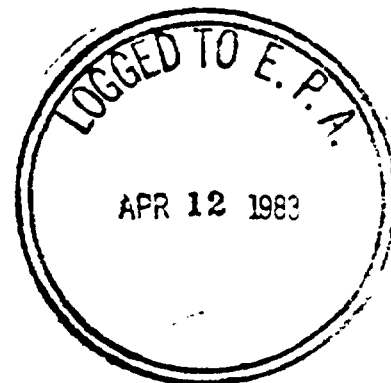
This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

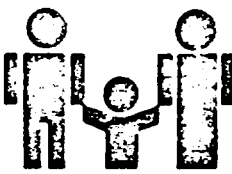
Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Joe Deakins





Keith

Ronald H. Levine, M.D. M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Date: March 16, 1983

Mr. T. A. Alspaugh
Cone Mills Corporation
2420 Fairview St.
Greensboro, N. C. 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	generator
<input type="checkbox"/>	<input type="checkbox"/>	transporter
<input type="checkbox"/>	<input type="checkbox"/>	treater
<input type="checkbox"/>	<input checked="" type="checkbox"/>	storer
<input type="checkbox"/>	<input type="checkbox"/>	disposer
<input type="checkbox"/>	<input type="checkbox"/>	small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is ☐ is not ☒ being cancelled.

Cordially,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn J. Braun

DHS Form 3048 3/82
Solid & Haz. Waste Mgt. Branch



DIVISION OF HEALTH SERVICES
NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive-Plaza West
Winston-Salem, N.C. 27106
(919) 761-2390



17-D 3/14/83
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

March 4, 1983

MEMORANDUM

TO: O.W. Strickland, Head
Solid and Hazardous Waste Management Branch

FROM: J.H. Deakins, District Sanitarian *JHD*
North Central Regional Office

SUBJECT: RCRA Re-Inspection
Company: Cone Mills Corporation
2420 Fairview Street
Greensboro, N.C. 27405
Contact: T.A. Alspaugh, Manager Air & Water
EPA ID# NCD000776914

A RCRA re-inspection was conducted on March 3, 1983. The facility was in compliance.

JHD:kd

Enclosure

1) Facility Information

Cone Mills Corporation
2420 Fairview Street
Greensboro, N.C. 27405

EPA ID# NCD000776914

2) Facility Contact

T.A. Alspaugh, Manager Air and Water

3) Survey Participants

T.A. Alspaugh
J.H. Deakins, Waste Management Specialist

4) Date of Inspection

March 3, 1983

5) Applicable Regulations

No change

6) Scope of Survey

No change

7) Facility Description

Cone Mills has requested a change from generator and storage to generator only. (See attached form). Otherwise no change. The plant was checked for generator standards.

8) Site Deficiencies

None

9) Compliance Schedule/Recommendations

None

RCRA INSPECTION FORM

Name of Site Cane Mills Corp. EPA I.D. NCD 000776914 County Guilford
 Location 27405 Inspection Date 3-3-83 Signature of Inspector(s) J. H. Deakin
2420 Fairview St. Greensboro Signature of Facility Contact J. A. [Signature]
 Compliance Date

INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

GENERATOR STANDARDS (262.00)

	C	NC	NA	Violation(s)
1. GENERAL (.10-.12)	<input checked="" type="checkbox"/>			
2. THE MANIFEST (.20-.23)	<input checked="" type="checkbox"/>			
3. PRE-TRANSPORT REQUIREMENTS (.30-.34)	<input checked="" type="checkbox"/>			
4. RECORDKEEPING/REPORTING (.40-.43)	<input checked="" type="checkbox"/>			
5. SPECIAL CONDITIONS (.50-.51)	<input checked="" type="checkbox"/>			

TRANSPORTER STANDARDS (263.00)

	C	NC	NA	Violation(s)
1. GENERAL (.11-.12)				
2. MANIFEST/RECORDKEEPING (.20-.22)				
3. HAZARDOUS WASTE DISCHARGES (.30-.31)				

TSDF STANDARDS (265.00)

	C	NC	NA	Violation(s)
1. GENERAL (.1-.4)				
2. GENERAL FACILITY STANDARDS (.10-.17)				
3. PREPAREDNESS AND PREVENTION (.30-.37)				
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES (.50-.56)				
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (.70-.77)				
6. GROUND-WATER MONITORING (.90-.94)				
7. CLOSURE AND POST-CLOSURE (.110-.120)				
8. FINANCIAL REQUIREMENTS (.140-.145)				
9. USE AND MANAGEMENT OF CONTAINERS (.170-.177)				
10. TANKS (.190-.199)				
11. SURFACE IMPOUNDMENTS (.220-.230)				
12. WASTE PILES (.250-.257)				
13. LAND TREATMENT (.270-.282)				
14. LANDFILLS (.300-.315)				
15. INCINERATORS (.340-.351)				
16. THERMAL TREATMENT (.370-.382)				
17. CHEM., PHYS./BIO. TREATMENT (.400-.406)				
18. UNDERGROUND INJECTION (.430)				

RCRA STATUS

GENERATOR ☒ TRANSPORTER ☐ TREATER ☐ STORER ☐ DISPOSER ☐

IMMINENT HAZARD: YES ☒ NO ☐



Keith

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Date: March 3, 1983

Mr. T. A. Alspaugh
Cone Mills Corporation
2420 Fairview St.
Greensboro, N. C. 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

<u>Add As</u>	<u>Delete As</u>	
<input type="checkbox"/>	<input type="checkbox"/>	generator
<input type="checkbox"/>	<input type="checkbox"/>	transporter
<input type="checkbox"/>	<input type="checkbox"/>	treater
<input type="checkbox"/>	<input checked="" type="checkbox"/>	storer
<input type="checkbox"/>	<input type="checkbox"/>	disposer
<input type="checkbox"/>	<input type="checkbox"/>	small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is ☐ is not ☒ being cancelled.

Cordially,

O.W. Strickland

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn J. Braun

DHS Form 3048 3/82
Solid & Haz. Waste Mgt. Branch

APPLICATION FOR CHANGE IN CLASSIFICATION UNDER RCRA

Date: March 3, 1983
Company Name: Cone Mills Corporation
Company Address: Greensboro, NC 27405
EPA ID No: NCD000776914

Mr. O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, N. C. 27602

Dear Mr. Strickland:

Our company requests the following change in its classification under RCRA (check all that apply):

<u>Add As</u>	<u>Delete As</u>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	generator
<input type="checkbox"/>	<input type="checkbox"/>	transporter
<input type="checkbox"/>	<input type="checkbox"/>	treater
<input type="checkbox"/>	<input checked="" type="checkbox"/>	storer
<input type="checkbox"/>	<input type="checkbox"/>	disposer
<input type="checkbox"/>	<input type="checkbox"/>	small generator

Our reason for this request is:

Not storing any hazardous wastes over 90 days.

NOTE: Give any pertinent information. This may be a change in your process, a new calculation of the volume of your waste, new analyses of your waste, etc. Be specific. Please note that this is not a petition for delisting a listed waste, which requires totally different handling.

If your request takes you out of the regulated system, but you wish to retain your EPA ID No., please state why.

Wish to remain classified as a generator.

I understand that my company must supply information about any changes in its operations which might change its status again on its own initiative.

I certify that the information supplied is accurate and correct to the best of my knowledge and belief. I am authorized to make this request on behalf of my company at the location given.

Signature: _____

T. A. Alsbaugh

Company Title: _____

Manager, Water & Air Resources

KEITH,
CAN'T YOU
PLEASE HANDLE
THIS. TCK

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

February 28, 1983



Mr. Thomas C. Karnoski
Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
P.O. Box 2091
Raleigh, NC 27602-2091

Re: Hazardous Waste Management Permit
Application
Cone Mills Corporation
White Oak Plant
Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone conversation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

Sincerely,

T. A. Alsbaugh
Manager, Water & Air Resources

lt

cc: Mr. Garland Coffey
Mr. Arthur J. Toompas



Tom

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

February 4, 1983

T. A. Alspaugh, Manager
Water and Air Resources
Cone Mills Corporation
2420 Fairview St.
Greensboro, N. C. 27405
NCD000776914

SUBJECT: Hazardous Waste Management Permit Application Addendum

Dear Mr. Alspaugh:

I received two copies of the subject addendum on February 2, 1983. A review of its completeness has not been completed at this time.

Your cover letter indicates that your facility does not intend to store hazardous waste on a routine or regular basis. This office is of the opinion that the Cone Mills Corporation facility does not need a hazardous waste management permit if the intended storage is to be for accidental spill cleanup residues. Enclosed is a copy of the January 19, 1983, Federal Register supporting this contention.

This office will continue to process your application in the normal manner. However, the regulating of your facility as a hazardous waste storage facility does not meet the intent of the Hazardous Waste Management Regulations. I urge you to consider requesting a change of status to a generator only.

If you have any questions, please contact me.

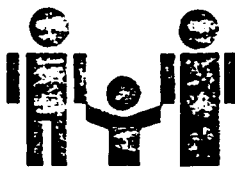
Sincerely,

Thomas C. Karnoski

Thomas C. Karnoski, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

TCK:ct

cc: Steve Phibbs



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

December 20, 1982

Mr. Tom Alspaugh, Manager
Water and Waste
Cone Mills Corporation
2420 Fairview St.
Greensboro, N. C. 27405

Dear Mr. Alspaugh:

This office received an application for a hazardous waste storage permit from the company you represent on October 1, 1982. The application has received a preliminary review, and while found to have certain deficiencies, is considered by this office to constitute a complete application. This letter shall become the notification of completeness of Cone Mills' application. The date of this letter is the effective date of the application (40 CFR 124.3(f) as adopted in NCAC 10F .0035).

The following items need to be addressed, clarified, or expanded upon before this office can continue its technical review:

- I. The modified Part A indicates that the intended waste to be handled will be hazardous by ignitability characteristic. It will be necessary to more accurately determine the constituent (or blend of constituents) that will make up your potential hazardous waste stream. Toxicity characteristics for various ignitable solvents can dictate necessary waste analysis protocol, emergency response procedures, and closure plan requirements in the rest of the permit application.
- II. The Part A of the application is a modification of the Part A submitted when the facility received interim status. Any modification requires the submission of an original.
- III. Facility Description The prevailing wind speed at the facility is needed as required in 40 CFR 122.25 (a)(19)(v) as adopted in NCAC 10F .0034.
- IV. Waste Characteristics The detailed waste analysis as required in 40 CFR 122.25 (a)(3), 264.13 (b), (c) and adopted in NCAC 10F .0034 and .0032 should include more detail and justification on sampling protocol, sampling methods, frequency of analysis, post-sampling procedures prior to analysis, and analytical methods. This detail could be provided by referencing applicable sections of SW-846, "Test Methods for Evaluating Solid Waste," EPA 1980.

Should this facility accept hazardous waste from other Cone Mills plants, what procedures will be used to guarantee that the received waste will be of a type this application is filed for?

- V. Process Information Since the facility's waste water treatment plant is to be used to handle spillage and decontamination residues, this office requires demonstration that the intended wastes can be handled with the existing NPDES permit.
- VI. Procedures To Prevent Hazards A more detailed description of decontamination equipment is needed to determine its appropriateness. This may well depend upon the more specific identification of the waste constituents as requested in item I. [This request is also appropriate for the contingency plan, specifically, 40 CFR 264.52 (e) as adopted in NCAC 10F .0032.]
- VII. Contingency Plan While the contingency plan lists available safety and emergency response equipment, no mention is given to its deployment or use by plant personnel. Please submit a statement identifying what groups of individuals will use this equipment.
- VIII. Closure Plans, Post-Closure Plans, and Financial Requirements Closure plans specifically refer to decontamination of the storage facility. What equipment/methodologies will be used for decontamination and what criteria will be used to determine that it has been effective?
- IX. Documentation of financial responsibility for liability coverage and closure is not adequate. Cone Mills has submitted the financial test to meet these requirements, but has not submitted the written opinion and report of an independent certified public accountant.

As stated earlier, the information listed above is required before this office can determine the suitability of the application. I am requesting the submittal of the additional items by March 1, 1983. If you have any questions or desire clarification on specific points, please contact William Paige or me (phone-919-733-2178) at your convenience.

Sincerely,

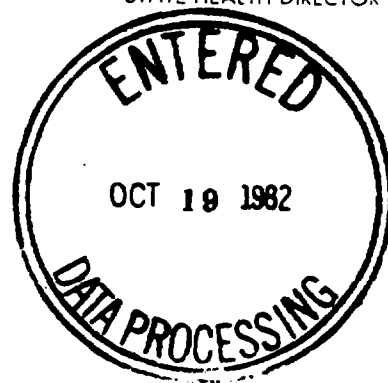
Thomas C. Karnoski

Thomas C. Karnoski, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section



DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR



October 5, 1982

Mr. Tom Alspaugh
Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

Dear Mr. Alspaugh:

On September 21, 1982 Mr. Steve Phibbs of the Solid and Hazardous Waste Management Branch conducted a RCRA inspection of your facility. You were found to be in compliance with the standards.

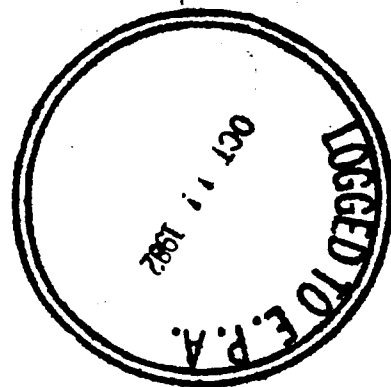
This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Steve Phibbs





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 5, 1982



MEMORANDUM

TO: O. W. Strickland, Head
Solid & Hazardous Waste Management Branch

FROM: Keith Lawson *KL*
Environmental Chemist

SUBJECT: Interim Status Inspections of the following Cone Mill Plants

1. Forest City, 101 Depot Street, Forest City, NC 28043
(NCD003150620)
2. Cliffside, Main Street, Cliffside, NC 28024
(NCD003150612)
3. Henrietta, Highway 221-A, Henrietta, NC 28076
(NCD000776971)

In addition to Mr. Alspaugh, Mr. John Scoville and Mr. Ed Sattler were present for Cone Mills.

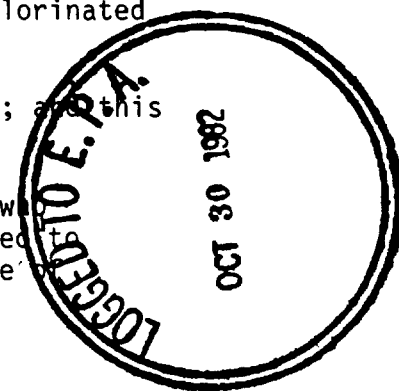
None of these plants is involved in hazardous waste activity. The principal activity involved is dyeing and finishing of greige goods. All chemicals which might be considered hazardous by characteristic are used up in process. Any slight amounts left over go to the local POTW, either the Forest City or the Cliffside sanitary district. Softeners and sizes are also used; these are not hazardous wastes in any case. A certain amount of caustic soda is used; most of this is neutralized in the process of using it, and any excess is neutralized in line before discharge to the POTW.

Cone Mills is apparently very much afraid of chlorinated solvents. Such solvents as are used to clean machinery, etc., are nonchlorinated solvents of high flash point--over 140°F.

We were requested to take these plants out of the RCRA system; and this will be done promptly.

The contact man for all three locations is Mr. Tom Alspaugh, who operates out of Greensboro. Correspondence should be addressed to him at 4100 Pleasant Garden Road, Greensboro, NC 27405. Date of inspection: September 29, 1982.

KL:lc





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive-Plaza West
Winston-Salem, N.C. 27106
(919) 761-2390

September 23, 1982

MEMORANDUM

TO: O.W. Strickland, Head
Solid and Hazardous Waste Management
Branch

FROM: Steve Phibbs, District Sanitarian
North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405
E.P.A. ID#NCD000776914



On September 21, 1982 a RCRA hazardous waste inspection was conducted at the Cone Mills - White Oak Plant in Greensboro, N.C. No violations were noted during the inspection.

SP:kd

RCMA Inspection Report

1) Facility Information

Cone Mills - White Oak Plant
2420 Fairview Street
Greensboro, N.C. 27405

2) Facility Contact

Tom Alspaugh

3) Survey Participants

Tom Alspaugh, Cone Mills
Arthur Toompas, Cone Mills
Steve Phibbs, District Sanitarian, DHS

4) Date of Inspection

September 21, 1982

5) Applicable Regulations

40 CFR Part 262 and Part 265

6) Scope of Survey

No change

7) Facility Description

No change

4) Addendum - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Deficiencies

None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR
OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT
FACILITIES

Name of Site Cone Mills Corp - White Oak Plant EPA I.D. NCDD00716914 County Guilford
 Location 2420 Fairview St., Greensboro, N.C. 27405 Signature of Facility Contact J. R. DeWitt
 Date Sept. 21, 1982 Signature of Inspector(s) Steve Phillips

INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

	<u>C</u>	<u>NC</u>	<u>NA</u>	<u>Violation(s)</u>
1. GENERAL	<input checked="" type="checkbox"/>	—	—	—
2. GENERAL FACILITY STANDARDS	<input checked="" type="checkbox"/>	—	—	—
3. PREPAREDNESS AND PREVENTION	<input checked="" type="checkbox"/>	—	—	—
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES	<input checked="" type="checkbox"/>	—	—	—
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<input checked="" type="checkbox"/>	—	—	—
6. GROUND-WATER MONITORING	—	—	<input checked="" type="checkbox"/>	—
7. CLOSURE AND POST-CLOSURE	<input checked="" type="checkbox"/>	—	—	—
8. FINANCIAL REQUIREMENTS	—	—	<input checked="" type="checkbox"/>	—
9. USE AND MANAGEMENT OF CONTAINERS	—	—	<input checked="" type="checkbox"/>	—
10. TANKS	—	—	<input checked="" type="checkbox"/>	—
11. SURFACE IMPOUNDMENTS	—	—	<input checked="" type="checkbox"/>	—
12. WASTE PILES	—	—	<input checked="" type="checkbox"/>	—
13. LAND TREATMENT	—	—	<input checked="" type="checkbox"/>	—
14. LANDFILLS	—	—	<input checked="" type="checkbox"/>	—
15. INCINERATORS	—	—	<input checked="" type="checkbox"/>	—
16. THERMAL TREATMENT	—	—	<input checked="" type="checkbox"/>	—
17. CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT	—	—	<input checked="" type="checkbox"/>	—
18. UNDERGROUND INJECTION	—	—	<input checked="" type="checkbox"/>	—

Generator, TSD Facility

Imminent hazard

YES

()

NO

(☒)



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

File

June 9, 1982

Mr. T. A. Alspaugh
Cone Mills Corporation
4100 Pleasant Garden Road
Greensboro, NC 27405

Dear Mr. Alspaugh:

EPA has not developed a permit application form and considers the regulations to be a guide for permit application. The Solid and Hazardous Waste Management Branch is developing a permit application form and will send this form to permit applicants when developed. However, lack of a permit application form does not release an applicant from the responsibility of addressing information outlined in the regulations. We hope the request will be mute and we can get the form prepared in time for your application to be submitted.

Respectfully,

William L. Meyer

William L. Meyer, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

WLM:nlc

CONE MILLS CORPORATION

4100 Pleasant Garden Rd.

GREENSBORO, N. C. 27405

April 15, 1982



Mr. O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section
Department of Human Resources
P. O. Box 2091
Raleigh, NC 27602

Dear Mr. Strickland:

We received your letter regarding our facility Id. number NCD000776914 requesting Part B of our application for a hazardous waste facility permit. Would you please send us some Part B forms so that we can fill them out?

Sincerely,

T. A. Alsbaugh
T. A. Alsbaugh
Manager, Water & Air Resources

To

EPA HAS NOT DEVELOPED A PERMIT APPLICATION FORM AND CONSIDERS THE REGULATIONS TO BE A GUIDE FOR PERMIT APPLICATION. THE SOLID & HAZ. WASTE MGT BRANCH IS DEVELOPING A PERMIT APP. FORM AND WILL SEND THIS FORM TO PERMIT APPLICANTS WHEN DEVELOPED. HOWEVER, LACK OF A PERMIT APPLICATION FORM DOES NOT RELEASE AN APPLICANT FROM THE RESPONSIBILITY OF PROVIDING INFORMATION OUTLINED IN THE REGULATIONS. WE HOPE THE REQUEST WILL BE MET ^{AND WE CAN} GET THE FORM PREPARED IN TIME FOR YOUR APPLICATION TO BE SUBMITTED.
res. wdm.



STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

P. O. Box 2091

Raleigh 27602

~~XXXXXXXXXXXX~~
Director

Ronald H. Levine, M.D.
Acting Director

August 18, 1981

NCD 000 776 914

Mr. T. A. Alspaugh
Cone Mills Corporation
White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

RE: Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this department's understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist
Solid & Hazardous Waste Management Branch
Environmental Health Section

WP:lc

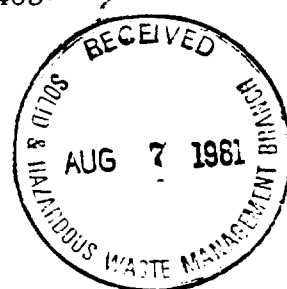
cc: Mr. Joe Deakins
Mr. Steve Phibbs
Mr. Jim Moore
Mr. Rick Doby

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405.

August 5, 1981

Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602



Re: PCB Transformer Blowup
Cone Mills Corporation
Salisbury Plant
Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gloves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top 1" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.

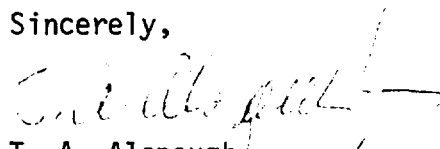
Mr. William Pai
Page 2
August 5, 1981

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh, NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

Sincerely,


T. A. Alspaugh
Manager, Water & Air Resources

crn

cc: Mr. Lee Clyburn, Plant Engineer
Mr. Graham Knight
Mr. Arthur Toompas
Mr. Rick Doby, State of NC Engineer



STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

P. O. Box 2091

Raleigh 27602

~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXX~~

Ronald H. Levine, M.D.
Acting Director

July 29, 1981

Mr. Tom Alspaugh
Cone Mills Corporation
White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

Dear Mr. Alspaugh:

Receipt of your July 17, 1981 correspondence has corrected the deficiencies noted during a June 23, 1981 RCRA Inspection.

Thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "O. W. Strickland".

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

July 27, 1981

Mr. W. O. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602



Re: Listing of Hazardous Wastes Activities

Dear Mr. Strickland:

After discussing the list of Cone Mills Corporation plants in Alamance and Rockingham Counties as they relate to hazardous waste activities with Mr. Joe Deakins of your regional staff, it was decided these plants actually fall under the small quantity generator classification (less than 1000 Kg/month). Mr. Deakins suggested that at this time, as long as the plants remain small quantity generators, it would reduce the burden on the State staff and our staff to not keep them on the generator permit listing as far as the paperwork burden is concerned. Mr. Deakins also said if at any time a situation developed concerning any of the plants, we could request a temporary generator or storage registration to handle any waste load above 1000 Kg that month or apply to come under the system with a permanent registration.

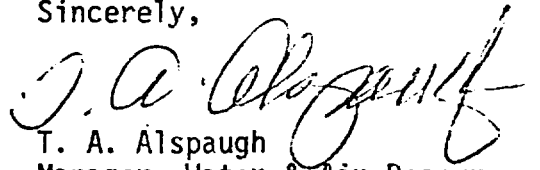
In reviewing the Cone Mills plants in North Carolina, we find they are all small quantity generators. We, however, have constructed a storage site at our White Oak Plant here in Greensboro. This site has already been inspected by Mr. Steve Phibbs, Winston-Salem Regional Office, and as far as we know we have complied with all the regulations for this site. We have also developed Hazardous Waste or Hazardous Waste Constituents Release - Contingency Plans for each plant and each plant has an emergency coordinator.

The list of Cone Mills plants in North Carolina is as follows:

Chemical Chair House	Greensboro, NC (Pleasant Garden)
Cliffside Plant	Cliffside, NC
Custom Graphic Impressions	Greensboro, NC
Edna Plant	Reidsville, NC
Eno Plant	Hillsborough, NC
Florence Plant	Forest City, NC
Granite Plant	Haw River, NC
Haynes Plant	Henrietta, NC
Minneola Plant	Gibsonville, NC
Olympic Products Co.	Greensboro, NC (Pleasant Garden)
Pineville Plant	Pineville, NC
Prelude Company	High Point & Thomasville, NC
Revolution Plant	Greensboro, NC
Salisbury Plant	Salisbury, NC
Tabardrey Plant	Haw River, NC
White Oak Plant	Greensboro, NC

We, therefore, request that all our plants except the White Oak Plant be removed from the registration listing since they will be small quantity generators or storers.

Sincerely,


T. A. Alsbaugh
Manager, Water & Air Resources

cc: Mr. Joe Deakins
N.C. Dept. of Human Resources
Solid & Hazardous Waste Management Branch
2332 Buckingham Road
Burlington, NC 27215
Mr. Arthur Toompas - Cone Mills
Mr. Shellman Green - Cone Mills
Mr. Rodney Sawyer - Cone Mills
Mr. Richard Sullivan - Cone Mills



STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive, Plaza West
Winston-Salem, N. C. 27106
Telephone (919) 761-2390

July 20, 1981

JAMES B. HUNT, JR.
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

HUGH H. TILSON, M.D.
DIRECTOR



MEMORANDUM

TO: O. W. Strickland, Head
Solid & Hazardous Waste Management Branch

FROM: Steve Phibbs, District Sanitarian

SUBJECT: I.S.S. Compliance Schedule

On July 17, 1981, I received a copy of the waste analysis and contingency plan for ~~Cone Mills~~ White Oak Plant in Greensboro, North Carolina. This plan is adequate to meet the hazardous waste management requirements. Also, copies of the contingency plan have been sent to the local emergency response units in the City of Greensboro.

Again Cone Mills is maintaining a very good hazardous waste program.

Thank you.

SP/sl



STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

JAMES B. HUNT, JR.
GOVERNOR

HUGH H. TILSON, M.D.
DIRECTOR

SARAH T. MORROW, M.D., M.P.H.
SECRETARY

P. O. Box 2091

Raleigh 27602

July 10, 1981

Mr. Tom Alspaugh
Cone Mills Corporation
White Oak Plant
2420 Fairview Street
Greensboro, NC 27405

Dear Mr. Alspaugh:

On June 23, 1981, Mr. Steve Phibbs, Solid and Hazardous Waste Management Branch, conducted an interim status inspection of your facility and the following violations were noted.

- (1) General Waste Analysis Plan (265.13) - It is required that the owner/operator provide a written waste analysis plan including frequency of analysis.
- (2) Copies of Contingency Plan (265.52) - A facility must provide a copy of the contingency plan to the local authorities.

Please correct these violations in accordance with the schedule established by you and Mr. Steve Phibbs and recorded below.

- (1) General Waste Analysis Plan (265.13) - 30 days
- (2) Copies of Contingency Plan (265.53) - 10 days

If you have any questions, please contact my office at (919) 733-2178.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management
Environmental Health Section

OWS:nlc



STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES

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SECRETARY

NORTH CENTRAL REGIONAL OFFICE
720 Coliseum Drive, Plaza West
Winston-Salem, N. C. 27106
Telephone (919) 761-2390

July 8, 1981

MEMORANDUM

TO: O. W. Strickland, Head
Solid and Hazardous Waste Management Branch

FROM: Steve Phibbs
District Sanitarian

SUBJECT: Notice of Violation

On June 23, 1981 an interim status standards inspection was conducted at the Cone Mills - White Oak Plant in Greensboro, North Carolina. The following violations were identified.

1-265.13(B) General Waste Analysis. It is required that the owner/operator provide a written waste analysis plan.

2-265.53 (b) Copies of contingency plan. Copies of the contingency plan have not been submitted to the local emergency response units.

The following compliance schedule to correct the above listed violations was agreed to by Cone Mills - White Oak Plant.

1. General Waste Analysis Cone Mills - White Oak Plant will develop a waste analysis plan and use a gas chromatograph mass spectrophotometer to analyze hazardous waste. A written plan for frequency of analysis and actual analytical results will be developed and maintained. Thirty (30) days will be allowed for this procedure.
2. Copies of Contingency Plan Within the next ten (10) working days, copies of the contingency plan will be presented to the local emergency response units.

Cone Mills - White Oak Plant is doing an outstanding job with their hazardous waste program.

SP/1a

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR
OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT
FACILITIES

Name of Site Cone Mills - White Oak EPA I.D. NC D000776919 County Guilford
Location _____ Signature of Facility Contact _____

Date 6/30/81 Signature of Inspector(s) Stephen P. [Signature]

INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

	<u>C</u>	<u>NC</u>	<u>NA</u>	<u>Violation(s)</u>
1. GENERAL	<input checked="" type="checkbox"/>	—	—	—
2. GENERAL FACILITY STANDARDS	—	<input checked="" type="checkbox"/>	—	<u>265.13(B)</u>
3. PREPAREDNESS AND PREVENTION	<input checked="" type="checkbox"/>	—	—	—
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES	—	<input checked="" type="checkbox"/>	—	<u>265.53(B)</u>
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<input checked="" type="checkbox"/>	—	—	—
6. GROUND-WATER MONITORING	—	—	<input checked="" type="checkbox"/>	—
7. CLOSURE AND POST-CLOSURE	<input checked="" type="checkbox"/>	—	—	—
8. FINANCIAL REQUIREMENTS	<input checked="" type="checkbox"/>	—	—	—
9. USE AND MANAGEMENT OF CONTAINERS	<input checked="" type="checkbox"/>	—	—	—
10. TANKS	—	—	<input checked="" type="checkbox"/>	—
11. SURFACE IMPOUNDMENTS	—	—	<input checked="" type="checkbox"/>	—
12. WASTE PILES	—	—	<input checked="" type="checkbox"/>	—
13. LAND TREATMENT	—	—	<input checked="" type="checkbox"/>	—
14. LANDFILLS	—	—	<input checked="" type="checkbox"/>	—
15. INCINERATORS	—	—	<input checked="" type="checkbox"/>	—
16. THERMAL TREATMENT	—	—	<input checked="" type="checkbox"/>	—
17. CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT	—	—	<input checked="" type="checkbox"/>	—
18. UNDERGROUND INJECTION	—	—	<input checked="" type="checkbox"/>	—

Imminent hazard YES NO
Explain _____ () (x)

GENERATORS CHECKLIST

Name <u>Gene Mills White Co</u>	EPA I.D. <u>N.C. Doc 776919</u>	County <u>Rockford</u>
Location <u>2450 Fairview St.</u>	Contact Person <u>Tom Alexander</u>	Date <u>11-25-81</u>
Survey Participants <u>Tom Hinkle</u>		

INSTRUCTIONS: In the space provided, use the listed codes to indicate status.
C - Compliance, NC - Noncompliance, NA - Not Applicable

1. EPA identification number, if applicable (262.12) N.C. Doc 776919

2. Waste Volume (261.5)
 - a. *Small Generator (<1000 kg/Mo) ☒
 - b. *Large Generator (>1000 kg/Mo) ☐

(*Note: Special limits on 261.33(e) list)

3. Briefly describe the plant operations and the type of waste generated. (Volume, form) 15 gallons of Waste Solvents generated on a weekly basis

4. Where is the waste currently being disposed? Waste Solvent is discharged to Plant wastewater Treatment System

5. Check Manifest (262.20 - 262.23)
 - a. identification (I.D. code, name, address, date) yes
 - b. waste information (shipping description, hazard class, quantity and unit) yes
 - c. emergency information (immediate response information, special handling instructions, phone no.) yes
 - d. certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA". yes

6. Check Containers (262.30)
 - a. improper construction —
 - b. leaks or corrosion —
 - c. heat generation from incompatible wastes —

- Continued

7. Labeling practices and marking (262.31 - 262.32)

a. DOT shipping description

b. Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator's Name and Address _____

Manifest Document Number _____

Waste shipped in bulk

8. Placards for transport (262.33)

9. Check accumulation time of wastes: (262.34) N/A

a. check records and dates

b. check containers

10. Recordkeeping practices:

a. manifests (262.40)

b. test results (262.40)

c. annual reports (262.41)

d. exception reports (262.42)

11. International shipments (262.50)

12. Permit information:

a. Check all applicable permits held by the generator:

☒ NPDES Permit ☒ SPCC Plan ☐ State Permit (Specify) _____

☒ Air Permits ☐ Local Permit ☐ RCRA Disposer

☒ RCRA Storer ☐ RCRA Treater

☐ Other (Specify) _____

b. In Compliance ☒ Yes ☐ No ☐ Unknown with respect to: _____ Regulation Name/#

13. Past regulatory actions: (Circle response)

None

Yes If yes, summarize: NPDES discharge questioned 7-8
years ago. Company paid \$15,000 fine

- Continued

14. Inspection activity (past or on-going): (Circle response)

	Date of Past Action	Performed by EPA or <u>State</u>	Describe: <u>A.L.C.D.</u>
None			<u>A.F.D.E.E. Discharge</u>
Yes -- Specify:			<u>Requirements</u>

15. Remedial activity (past or on-going): (Circle response)

None

Yes -- Specify:

GENERAL SITE INSPECTION CHECKLIST

Name <u>Cone Mills - Oak Plant</u>	EPA I.D. <u>White</u>	County <u>Guilford</u>
Location <u>2400 Fairview St. N.C.</u>	Contact Person <u>John Alspaugh</u>	Date <u>6/23/81</u>

INSTRUCTIONS: In the space provided, use the listed codes to indicate status.
C - Compliance, NC - Noncompliance, NA - Not applicable

1. Characterization of site activity:

a. check off the appropriate activities below:

STORER	TREATER	DISPOSER
Pile <input type="checkbox"/>	Filtration <input type="checkbox"/>	Landfill <input type="checkbox"/>
Surface Impoundment <input type="checkbox"/>	Incineration <input type="checkbox"/>	Land Treatment <input type="checkbox"/>
Drums <input checked="" type="checkbox"/>	Thermal Treatment <input type="checkbox"/>	Surface Impoundment <input type="checkbox"/>
Tank, Above Ground <input type="checkbox"/>	Volume Reduction <input type="checkbox"/>	Incineration <input type="checkbox"/>
Tank, Below Ground <input type="checkbox"/>	Recycling/Recovery <input type="checkbox"/>	Other <input type="checkbox"/>
Other <input type="checkbox"/>	Chem/Phys/Bio Treatment <input type="checkbox"/>	
	Waste Oil <input type="checkbox"/>	
	Reprocessing <input type="checkbox"/>	
	Solvent Recovery <input type="checkbox"/>	
	Other <input type="checkbox"/>	

Monthly Average
Approx. 400,000 gal.

b. specify details of site activities as needed:

Textile Manufacturing - Denim Production, Solvents used to clean textile machinery

c. site description (acreage, etc.)

10 Acre Textile Manufacturing Plant

Actions Taken or Planned (This information is available on generator checklist if filled out)

2. Permit information:

a. Check all applicable permits held by the site:

☒ NPDES Permit ☒ SPCC Plan ☐ State Permit (Specify) _____

☒ Air Permits ☐ Local Permit ☐ RCRA Disposer

☒ RCRA Storer ☐ RCRA Treater

☐ Other (Specify) _____

In Compliance (Circle) Yes No Unknown with respect to: _____
Regulation Name/#

- Continued

8. Adequate security: (265.14)
(The facility may be exempt under (265.14(a)(1)(2))
- a. 24 hour surveillance system (265.14(b)(1)) yes
 - or
 - b. artificial or natural barrier around facility (265.14(b)(2)(i)) yes
 - and
 - c. means to control entry (265.14(b)(2)(ii)) yes
 - d. danger sign(s) at entrance(s) (265.14(c)) yes
9. Inspection requirements must include: (265.15)
- a. malfunction (265.15(a)) yes
 - b. operator error (265.15(a)) yes
 - c. discharges (265.15(a)) yes
 - d. written inspection schedule (265.15(b)(1)(2)) yes
 - 1. monitoring equipment yes
 - 2. safety, emergency equipment yes
 - 3. security devices yes
 - 4. operating and structural equipment yes
 - e. inspection log (265.15(d)) yes
10. Personnel training records: (265.16) *(check need to be updated, probably)*
- a. job titles (265.16(d)(1)) yes
 - b. description of training (265.16(d)(2)) yes
 - c. records of training (265.16(d)(3)) yes
11. Requirements for ignitable, reactive or incompatible wastes: (265.17)
- a. handling (265.17(a)) yes
 - b. no smoking signs (265.17(a)) yes
 - c. separation and confinement (265.17(a)) yes
 - d. check waste containers (265.17(a)) yes - o.k.

- Continued

3. Past regulatory actions: (Circle)

None

Yes

If yes, summarize: WHA Oak Plant Since 2/15/00 7-8
issues are in reference to discharge
violation

4. Inspection activity (past or on-going): (Circle)

Date of
Past
Action

Performed
by
EPA/State

Describe: A.R.C.D discharge
inspections

None

Yes -- Specify:

5. Remedial Activity (past or on-going): (Circle)

None

Yes -- Specify:

General Facility Standards

Subpart B:

YES

NO

6. a. EPA identification number (265.11)

(✓)

()

b. foreign shipments (265.12)

()

(✓)

c. new owner/operator (265.12)

()

(✓)

7. General Waste Analysis Plan must include: (265.13)

YES

NO

a. test methods

()

(✓)

b. sampling method

()

(✓)

c. review or repeat of analysis

()

()

- Continued

Preparedness and Prevention

Subpart C:

12. Maintenance and operation of facility: (265.31)

- a. evidence of fire, explosion or
contamination of the environment

None

13. Required equipment: (265.32)

- a. alarm system (265.32(a))

yes

- b. telephone or 2-way radio (265.32(b))

yes

- c. portable fire extinguishers, fire
control, spill control equipment and
decontamination equipment (265.32(c))

yes

- d. water of adequate volume for hoses,
sprinklers or water spray system (265.32(d))

yes

14. Testing and maintenance of equipment (265.33)

- a. testing and maintenance procedures

O.K.

- b. condition of equipment

O.K.

15. Access to communications or alarm systems (265.34)
(unless exempt under 265.32)

yes

16. Required aisle space (265.35)

yes

17. Arrangements with local authorities (265.37)
(Note 265.37(b))

- a. Attempted arrangements (265.37(a))

yes

- b. Agreement with state emergency response
teams (265.37(Q)(3))

yes

Contingency Plan and Emergency Procedures

Subpart D:

18. Content of contingency plan (265.52)

yes - O.K.

1. Local agreements (265.52(c))

yes

2. Emergency coordinator(s) (265.52(d)) -
(Phone No./qualifications)

yes

3. Emergency equipment list (265.52(e))

yes

4. Evacuation Plan (265.52(f))

yes

- Continued

19. Copies of contingency plan (265.53)

NE

20. Emergency coordinator (265.55)

a. identify emergency coordinator

yes

b. ensure qualifications of coordinator

yes

21. Emergency procedures (265.56)

yes

Manifest System, Recordkeeping, and Reporting
Subpart E:

22. Use of manifest system: (265.71)

a. procedures for processing each manifest.

yes

b. records of past shipments

yes

23. Manifest discrepancies (methods of detection) (265.72)

yes

24. Operating record: (265.73)

a. presence

O.K.

b. maintenance

O.K.

25. Availability, retention and disposition of records (265.74)

yes

26. Annual report (265.75)

—

27. Unmanifested waste report: (265.76)

N/A

a. procedures for filling out report

b. compliance file for reports

28. Additional reports: (265.77)

a. releases, fires and explosions (265.77(a))

yes

b. groundwater contamination (265.77(b))

—

c. facility closure (265.77(c))

—

- Continued

Groundwater Monitoring
Subpart F:

N/A

29. Applicability: (265.90)

- a. check applicability (265.90(a))
- b. operation and maintenance of a system (265.90(b))
- c. waiver of requirement (265.90(c))

30. Groundwater monitoring system (265.91)

- a. presence (265.91(a))
- b. number and placement of wells (265.91(a)(1)(2))
- c. maintenance of wells (265.91(c))
- d. well integrity (265.91(c))

31. Sampling and analysis: (265.92)

- a. sampling and analysis plan (265.92(a))
- b. records of sampling and analysis (265.94(a)(1))

32. Preparation, evaluation and response: (265.93)

- a. outline of water quality assessment program (265.93(a))
- b. adequacy of outline (265.93(a)-(f))

33. Recordkeeping and reporting: (265.94)

- a. groundwater analysis records (265.94(a)(1))
- b. reports of groundwater monitoring information to Regional Administrator (265.94(a)(2))
- c. annual groundwater quality reports (265.94(a)(2)(ii)(iii))

Closure and Post-Closure
Subpart G:

34. Closure and post-closure: (265.110 - 265.112)

- a. closure plan
- b. adequacy of plan

yes

O.K.

- Continued

35. Time for closure: (265.113)
- a. 90 day closure requirements (265.113(a))
 - b. six month closure requirements (265.113(b))
36. Disposal or decontamination of equipment (265.114)
37. Certification of closure (265.115)
38. Post closure care and use of property: (265.117) *N/A*
- a. post closure plan
 - b. period of post closure plan
 - c. plan and amendments approved (265.112)
39. Notice to local land authority (265.119)
- a. survey plat including records of all waste types and quantities of waste
 - b. submitted to proper authorities
40. Notice in deed to property: (265.120)
- a. proper notification to potential purchasers

Financial Requirements
Subpart H:

41. Liability for each facility (sudden, nonsudden act) Specify amount \$1,000,000
42. Effective date (facility specific)

yes

was in effect prior

Nov. 19, 1980

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C. ✓

MEMO TO: Engineering Dept.
ATTN: Mr. Arthur Toompas

June 2, 1981

LAB NO.: 0507-9300-1020

RE: Priority Pollutant
Analysis of DWD
Effluent Water.

SAMPLE TAKEN: 5/06/81

SAMPLE EXTRACTED FOR B/N, ACIDS, PESTICIDES: 5/08/81

ANALYSES COMPLETED: 5/21/81

SAMPLE TAKEN: 5/29/81

PURGE AND TRAP WORK COMPLETED: 5/29/81

DATA: Chemical Analysis

Quantitative results concerning the priority pollutants are given in the next 7 pages. In addition, other compounds were found in the various fractions and they are given below.

Base/Neutral Fraction: "two" chloroxylylene isomers, dichloroxylylene, 2-chloro-4,6-bis(ethylamino)-S-triazine (also called Simazine; a herbicide used for control of broadleaf and grassy weeds).

Acid Fraction: chloroethylbenzene, dichloroxylylene, and trichloroxylylene.

TESTING SERVICES

John A. Dunn

John A. Dunn, Analyst

C.M. Player, Jr.

C. M. Player, Jr., Section Head

JAD:CMPrjr:smt

cc: Mr. Tom Alspaugh

(Note 1: Analysis for Base/Neutrals on Process Water will follow this request. A new sample will be collected for the analysis.)

(Note 2: There are 13 priority pollutant metals; analysis will follow at a later date.)

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(1)

BASE/NEUTRAL FRACTION

<u>Compound</u>	<u>Amount Detected</u> <u>(μg/liter)</u>	<u>Limit of Detection</u>	
		<u>ng injected</u>	<u>μg/liter</u>
1,3-dichlorobenzene	None Detected (ND)	20	10
1,4-dichlorobenzene	ND	20	10
hexachloroethane	ND	20	10
Bis(2-chloroethyl)ether	ND	20	10
1,2-dichlorobenzene	ND	20	10
N-nitroso-di-n-propyl amine	ND	20	10
nitrobenzene	ND	20	10
hexachlorobutadiene	ND	20	10
1,2,4-trichlorobenzene	ND	20	10
isophorone	ND	20	10
naphthalene	ND	20	10
Bis(2-chloroethoxy)methane	ND	20	10
hexachlorocyclopentadiene	ND	20	10
2-chloronaphthalene	ND	20	10
acenaphthylene	ND	20	10
acenaphthene	ND	20	10
dimethyl phthalate	ND	20	10
2,6-dinitrotoluene	ND	20	10
fluorene	ND	20	10
4-chlorophenyl phenyl ether	ND	20	10
2,4-dinitrotoluene	ND	20	10
1,2-diphenyl hydrazine	ND	20	10
diethyl phthalate	3	20	10
N-nitrosodiphenyl amine	ND	20	10
hexachlorobenzene	ND	20	10

*Standard AATCC Rating System: 5-Excellent, 4-Good, 3-Fair, 2-Poor, 1-Very Poor

J10391 Co.

(2)

BASE/NEUTRAL FRACTION, contd.

Compound	Amount Detected ($\mu\text{g/liter}$)	Limit of Detection	
		ng injected	$\mu\text{g/liter}$
4-bromophenyl phenyl ether	ND	20	10
phenanthrene	ND	20	10
di-n-butyl phthalate	6	20	10
fluoranthene	ND	20	10
pyrene	ND	20	10
benzidine	ND	20	10
butyl benzyl phthalate	ND	20	10
Bis(2-ethylhexyl)phthalate	24	20	10
chrysene	ND	20	10
benzo (a) anthracene	ND	20	10
3,3-dichlorobenzidine	ND	20	10
di-n-octyl phthalate	ND	20	10
benzo (b) fluoranthene	ND	20	10
benzo (k) fluoranthene	ND	20	10
benzo (a) pyrene	ND	20	10
indeno(1,2,3-c,d) pyrene	ND	50	25
dibenzo(a,h) anthracene	ND	50	25
benzo(g,h,i) perylene	ND	50	25
N-nitrosodimethyl amine	ND		
Bis-(chloromethyl) ether	ND		
2,3,7,8-tetrachlorodibenzo-p-dioxin	ND		

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(3)

ACID FRACTION^{1,2}

<u>Compound</u>	<u>Amount Detected</u> <u>(µg/liter)</u>	<u>Limit of Detection</u>	
		<u>ng injected</u>	<u>µg/liter</u>
2-chlorophenol	None Detected (ND)	50	25
2-nitrophenol	ND	50	25
phenol	ND	50	25
2,4-dimethylphenol	ND	50	25
2,4-dichlorophenol	ND	50	25
2,4,6-trichlorophenol	ND	50	25
4-chloro-3-methylphenol	ND	50	25
2,4-dinitrophenol	ND	500	250
2-methyl-4,6-dinitrophenol	ND	500	250
pentachlorophenol	ND	50	25
4-nitrophenol	ND	50	25
total phenols (by 4 AAP method)	6.4		

¹The 4-aminoantipyrine method used to analysis of total phenols has a lower detection limit than the extraction GC/MS method; the 4-aminoantipyrine method is for total phenols, whereas the GC/MS method is for individual phenol compounds.

²There were no chlorophenol compounds detected in the acid fraction.

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(4)

PESTICIDE FRACTION

<u>Compound</u>	<u>Amount Detected</u> <u>($\mu\text{g/liter}$)</u>	<u>Limit of Detection</u>	
		<u>ng injected</u>	<u>$\mu\text{g/liter}$</u>
a-BHC	None Detected (ND)	40	10
g-BHC	ND	40	10
b-BHC	ND	40	10
heptachlor	ND	40	10
d-BHC	ND	40	10
aldrin	ND	40	10
heptachlor epoxide	ND	40	10
endosulfan I	ND	40	10
dieldrin	ND	40	10
4,4'-DDE	ND	40	10
endrin	ND	40	10
endosulfan II	ND	40	10
4,4'-DDD	ND	40	10
4,4'-DDT	ND	40	10
endosulfan sulfate	ND	40	10
chlorodane	ND		
toxaphene	ND		
PCB-1242	ND		
PCB-1254	ND		

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

PESTICIDE FRACTION, contd.

(5)

<u>Compound</u>	<u>Amount Detected</u> <u>(ug/liter)</u>	<u>Limit of Detection</u>	
		<u>ng injected</u>	<u>ug/liter</u>
PCB-1221	ND		
PCB-1232	ND		
PCB-1248	ND		
PCB-1260	ND		
PCB-1016	ND		
endrin aldehyde	ND		
2,3,7,8-tetrachlorodibenzo-p-dioxane (TCDD)	ND		

VOLATILE ORGANICS

(6)

<u>Compound</u>	<u>Amount Detected ($\mu\text{g/liter}$)</u>	<u>Limit of Detection $\mu\text{g/liter}$</u>
chloromethane**	None Detected (ND)	10
bromomethane**	ND	10
vinyl chloride**	ND	10
chloroethane**	ND	10
methylene chloride	ND	10
trichlorofluoromethane	ND	10
1,1-dichloroethene	ND	10
1,1-dichloroethane	ND	10
trans-1,2-dichloroethene	ND	10
chloroform	ND	10
1,2-dichloroethane	ND	10
1,1,1-trichloroethane	ND	10
carbon tetrachloride	ND	10
bromodichloromethane	ND	10
1,2-dichloropropane	ND	10
trans-1,3-dichloropropene	ND	10
trichloroethene	ND	10
dibromochloromethane	ND	10
1,1,2-trichloroethane	ND	10
cis-1,3-dichloropropene	ND	10
benzene	ND	10

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

VOLATILE ORGANICS, contd.

(7)

<u>Compound</u>	<u>Amount Detected ($\mu\text{g/liter}$)</u>	<u>Limit of Detection $\mu\text{g/liter}$</u>
2-chloroethylvinyl ether	ND	10
bromoform	ND	10
1,1,2,2-tetrachloroethane	ND	10
tetrachloroethene	ND	10
toluene	ND	10
chlorobenzene	ND	10
ethylbenzene	ND	10
acrolein	ND	100
acrylonitrile	ND	100

**By EPA criteria, these four compounds should be absorbed on Silica Gel 15 when using the purge and trap method. At the present time, we do not have this particular sorbent; it is, however, on order and these compounds will be checked on a new sample.

DEM FORM MR-1.4
REVISED 3-78

☒ UPSTREAM SAMPLES
☐ DOWNSTREAM SAMPLES
(CHECK ONE ONLY)

C. UPSTREAM I.D. NUMBER
D. DOWNSTREAM I.D. NUMBER

B. MONTHLY REPORT FOR

79

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
GRAB SAMPLE DATE	GRAB SAMPLE TIME, 2400 HOUR CLOCK	TEMPERATURE (°CELSIUS)	DISSOLVED OXYGEN (MG/L)	pH	BOD ₅ 20°C (MG/L)	COD (MG/L)	FECAL COLIFORM (MF/100 ML)	FECAL COLIFORM (MPN/TUBE)	TOTAL SUSPENDED RESIDUE (MG/L)	SETTLABLE MATTER (ML/L)	TURBIDITY (NTU)	PHENOLS (MG/L)	DETERGENT (MG/L)	MERCURY (MG/L)	COPPER (MG/L)	TOTAL CHROMIUM (MG/L)	NICKEL (MG/L)	ZINC (MG/L)	STAFF GAUGE (FEET)	TOTAL PHOSPHORUS (MG/L)	MOIL & GREASE (MG/L)	SEPARATORY FUNNEL EXTRACTION			
1		15	9.0	7.3	2.5																				
2		14	10.0																						
3		14	9.4	7.6	3																				
4		14	7.4	6.4	2																				
5		14	2.8	7.1	2.5																				
6			8.8		2.5		280																		
7		14	8.4	7.3	3.5	24.1																			
8		17	2.8	2.4	2.5																				
9		15	8.0	2.0																					
10		25	8.2	2.1	2																				
11		21	7.2	2.4	2.5																				
12		17	8.0	2.1	2.5																				
13		15	8.4	2.3	2.5		190																		
14		17	8.2	2.4	2.5	13.5																			
15		15	8.1	2.5	2.5																				
16		17	8.2	2.3	2.5																				
17																									
18																									
19			2.8	2.5	2.5																				
20		14	8.0	2.2	4		1450																		
21		14	8.2	2.2	3.5																				
22		20	2.2	2.4	2.5																				
23		14	2.0		4																				
24		20	8.8	1.5	3																				
25		17	2.8	2.4																					
26		15	2.8	2.4	2																				
27		21	2.4	2.4	4		260																		
28		21	6.4	2.4	12	24.3																			
29		20	1.4	7.6	7.5																				
30																									
31		14	8.2		3.2	22.7	376																		
MON. AVG.		1	2.1	10.0	12.8	12	29	1450																	
MON. MAX		A	14	6.2	7.0	2	12.5	190																	
MON. MIN		J																							

H. MAIL MONTHLY MONITORING REPORT DIV. OF ENVIRONMENTAL MANAGEMENT
N.C. DEPT. OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT
POST OFFICE BOX 27687, RALEIGH, NORTH CAROLINA 27611
M. STREAM NAME AND SAMPLING LOCATION

L. NOTE: STAFF GAUGE IN COLUMN 20 REFERS TO A READING OF THE U.S.G.S. GAUGING STATION AT EITHER THE UPSTREAM OR DOWNSTREAM SAMPLING LOCATION FOR YOUR FACILITY, SHOULD SUCH A GAUGING STATION BE LOCATED AT OR NEAR ONE OF THE STREAM SAMPLING LOCATIONS.

*ENTER GEOMETRIC MEAN HERE DO NOT USE AN ARITHMETIC MEAN

MAIL WHITE & COPIES TO RALEIGH
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REPORT FOR
Municipality, Industry and/or Facility
County
City

(CHECK ONE ONLY)

UPSTREAM I. D. NUMBER

B. 1941
MONTHLY REPORT FOR

195

79

607

N. AVG.	I	17	7.7	5.58	65%
N. MAX.	A	22	10.6	5.31	241%
N. MIN.	J	15	6.2	6.8	300%

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UPSTREAM SAMPLES C NO. 000087121

DOWNSTREAM SAMPLES D

UPSTREAM I. D. NUMBER

DOWNSTREAM I. D. NUMBER

MONTHLY REPORT FOR

19 79

A MONITORING REPORT FOR

MUNICIPALITY, INDUSTRY, AND/OR FACILITY

COUNTY

CITY

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
GRAB SAMPLE	TEMPERATURE (°C)	TEMPERATURE (°F)	PH	BOD ₅ (mg/L)	COD (mg/L)	FECAL COLIFORM (1000 ML)	FECAL COLIFORM (1000 ML)	FECAL COLIFORM (1000 ML)	TOTAL SUSPENDED SOLIDS (mg/L)	SETTLABLE SOLIDS (mg/L)	MATTER (mg/L)	TURBIDITY (NTU)	PHENOLS (mg/L)	DETERGENT (mg/L)	MERCURY (ug/L)	COPPER (ug/L)	CHROMIUM (ug/L)	NICKEL (ug/L)	ZINC (ug/L)	GAUGE (feet)	TOTAL PHOSPHORUS (ug/L)	OIL & GREASE (mg/L)	EXTRACTABLE SOLIDS (mg/L)	
1	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
24	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
27	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
28	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
29	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AUG	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
MAX	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
MIN	17	63	7.5	2.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

NOTE: STAFF GAUGE IN COLUMN 20 REFERS TO A READING OF THE U.S.G.S. GAUGING STATION AT EITHER THE UPSTREAM OR DOWNSTREAM SAMPLING LOCATION FOR YOUR FACILITY, SHOULD SUCH A GAUGING STATION BE LOCATED AT OR NEAR ONE OF THE STREAM SAMPLING LOCATIONS.

*ENTER GEOMETRIC MEAN HERE DO NOT USE AN ARITHMETIC MEAN

STREAM NAME AND SAMPLING LOCATION

North Fork of the River

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INFLUENT SAMPLES

B. April 1981
MONTHLY REPORT FOR

C. NC 0000874102
INFLUENT I.D. NUMBER

79

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DATE GRAB OR COMPOSITE SAMPLE COLLECTED	GRAB SAMPLE COLLECTION TIME 2400 CLOCK	LENGTH OF TIME FROM SAMPLE WAS COLLECTED IN HOURS	PH	TEMPERATURE (CELSIUS)	SETTLABLE MATERIAL ML/L	BOD ₅ , 20 °C MG/L	NITROGEN, AMMONIA MG/L	TOTAL RESIDUE MG/L	TOTAL SUSPENDED RESIDUE MG/L	DETERGENTS MBAS	TURBIDITY NTU	COD MG/L	MERCURY UG/L	COPPER UG/L	TOTAL CHROMIUM UG/L	NICKEL UG/L	ZINC UG/L	TOTAL KJELDAHL NITROGEN MG/L	ENTER PARAMETER CODE NUMBER ABOVE							
1	0720	24	10.8	24		215	12.6		120			1483			50		590	46.8	17							
2	0720	24	11.5	24				4458	120																	
3	0720	24	10.8	23		215			150																	
4																										
5																										
6	0720	24	11.0	19		305			90																	
7	0720	24	11.4	20		620			90																	
8	0720	24	11.5	23		625	75		150			1824			50		520	41.2	23							
9	0720	24	10.1	23		670		3550	110																	
10	0720	24	9.8	23		610			20																	
11																										
12																										
13	0720	24	11.1	23		215			20																	
14	0720	24	11.2	28		825			220																	
15	0720	24	11.3	22		675	154		210			1822			50		480	45.4	1.0							
16	0720	24	11.2	27		415		4136	120																	
17	0720	24	11.2	28		340			124																	
18																										
19																										
20																										
21	0720	24	11.8	28		470			270																	
22	0720	24	11.6	25		555	140		160			182			50		240	51.5	3.4							
23	0720	24	11.5	27		710		4665	120																	
24	0720	24	10.6	21		620			130																	
25																										
26																										
27	0720	24	11.1	22		455			110																	
28	0720	24	10.4	28		480			150																	
29	0720	24	10.8	25		530	18		130			1234			210		240	38.5	1.5							
30	0720	24	10.9	29		520		3485	120																	
31																										
MONTHLY AVERAGE			11.2	25		558	12.5	1110	110			1499			72		382	44.8	3.0							
MONTHLY MAXIMUM			11.9	28		975	154	4665	270			1822			260		520	51.5	3.4							
MONTHLY MINIMUM			9.7	19		205	75	3485	20			1234			50		240	38.5	1.5							
TYPE OF SAMPLE			COMPOSITE																							
SAMPLE			GRAB																							

MAIL MONTHLY MONITORING REPORTS TO:
DIVISION OF ENVIRONMENTAL MANAGEMENT
NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
POST OFFICE BOX 27687
RALEIGH, NORTH CAROLINA 27611

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COUNTY Wake
A. MONTHLY REPORT FOR Municipality, Industry, and/or Facility
City Raleigh

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
DATA BASE UPDATED 85/03/14
T.1 - ERRIS TURNAROUND DOCUMENT

EPA ID NO.: NCD000776914 SHEET 01

(ACTION : * * - FOR DATA ENTRY USE ONLY)

SITE DESCRIPTION: *
*
*
*

(ACTION - FOR DATA ENTRY USE ONLY)	EVENT TYPE	DATE (YY/MM) STARTED	DATE (YY/MM) COMPLETED	- - - - CONDUCTED BY - - - -				COUNTS
				EPA	STATE	RESP/PARTY	OTHER	
__	(X) SITE DISCOVERY (SD)		80/08					
__	(X) PRELIMINARY ASSESSMENT (PA)	85/03	85/03	*__*	X			
__	SITE INVESTIGATION (SI)	*__/_*	*__/_*	*__*	*__*			
__	REMEDIAL ACTION (RD)	*__/_*	*__/_*	*__*	*__*	*__*	*__*	*__*
__	REMOVAL ACTION (RV)	*__/_*	*__/_*	*__*	*__*	*__*	*__*	*__*
__	ENFORCEMENT INVESTIGATION (EI)	*__/_*	*__/_*	*__*	*__*		*__*	
__	ADMINISTRATIVE ORDER (AO)	*__/_*	*__/_*	*__*	*__*		*__*	
__	JUDICIAL ACTION (JA)	*__/_*	*__/_*	*__*	*__*		*__*	

REGION: 04

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
DATA BASE UPDATED 85/03/14
T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 107
RUN DATE: 85/03/14
RUN TIME: 20:12:07

EPA ID NO.: NCD000776914 SHEET 02

SITE NAME: CONE MILLS CORP/WHT OAK PLT

ALIAS AND ALIAS LOCATION DATA

ALIAS (ACTION *_* - FOR DATA ENTRY USE ONLY)

SEQ. NO.: *_* ALIAS NAME: *_* SOURCE: *_*

ALIAS LOCATION (ACTION *_* - FOR DATA ENTRY USE ONLY)

CONTIGUOUS PORTION OF SITE: *_*

STREET: *_* CONG. DIST.: *_*

CITY: *_* ST: *_* ZIP: *_* - *_*

CNTY NAME: *_* CNTY CODE: *_*

LAT: *_*/_*/_.* LONG.: *_*/_*/_.* SMSA: *_* USGS HYDRO. UNIT: *_*

ALIAS (ACTION *_* - FOR DATA ENTRY USE ONLY)

SEQ. NO.: *_* ALIAS NAME: *_* SOURCE: *_*

ALIAS LOCATION (ACTION *_* - FOR DATA ENTRY USE ONLY)

CONTIGUOUS PORTION OF SITE: *_*

STREET: *_* CONG. DIST.: *_*

CITY: *_* ST: *_* ZIP: *_* - *_*

CNTY NAME: *_* CNTY CODE: *_*

LAT: *_*/_*/_.* LONG.: *_*/_*/_.* SMSA: *_* USGS HYDRO. UNIT: *_*

REGION: 04

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
DATA BASE UPDATED 85/03/14
T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 108
RUN DATE: 85/03/14
RUN TIME: 20:12:07

EPA ID NO.: NCD000776914 SHEET 03

SITE NAME: CONE MILLS CORP/WHT OAK PLT

SITE COMMENTS

(ACTION - FOR
DATA ENTRY USE ONLY)

COMMENT
NUMBER

COMMENT

_

001

PART A- ON FILE

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POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION

REGION II SITE NUMBER NC D000776914

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Cone Mill Corp. B. STREET 2420 Fairview St.
C. CITY GREENSBORO D. STATE N.C. E. ZIP CODE 27405

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED -- NO HAZARD					
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)			X		
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION NEEDED (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					
E. RATIONALE FOR DISPOSITION <u>Medium Priority</u> <u>Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. Presence of contamination on site and off-site via conveyance down the creek.</u>					
F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.)		G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)			

H. PREPARER INFORMATION

1. NAME Deise Bland 2. TELEPHONE NUMBER 881-2034 3. DATE (mo., day, & yr.) 3/11/85

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.
Need ST to determine if any surface soil and groundwater contamination exist. No known or suspected private wells in vicinity.

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo, day, & yr)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION				
(1) _____	_____	_____	_____	_____
(2) _____	_____	_____	_____	_____
(3) _____	_____	_____	_____	_____
b. TYPE OF MONITORING				
(1) _____	_____	_____	_____	_____
(2) _____	_____	_____	_____	_____
c. TYPE OF SAMPLING				
(1) _____	_____	_____	_____	_____
(2) _____	_____	_____	_____	_____

III. INVESTIGATIVE ACTIVITY NEEDED and PART B-PROPOSED INVESTIGATIVE ACTIVITY (Continued)

d. TYPE OF LAB ANALYSIS				
(1)				
(2)				
e. OTHER (specify)				
(1)				
(2)				

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B (on front & above) AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES	1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES
a. EPA		b. STATE	
c. EPA CONTRACTOR		d. OTHER (specify)	

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY (On Site & Off-Site): List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

B. LONG TERM STRATEGY (On Site & Off-Site): List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES	1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES
a. EPA			b. STATE		
c. PRIVATE PARTIES			d. OTHER (specify)		

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: Ms. Gayle Younger Legal Department Cone Mills Corp., White Oak Plant 2420 Fairview Street Greensboro, N.C. 27405	4. Article Number P 700 132 619 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee 6. Signature - Agent <i>[Signature]</i> 7. Date of Delivery 8-11-88 <i>[Signature]</i>	8. Addressee's Address (ONLY if requested and fee paid)

Rec'd 8/19 am

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

August 17, 1988

Mr. Robert P. Morris
Environmental Engineer
Site Investigation and Support Branch
U.S. EPA-Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Re: **Cone Mills Corporation**
White Oak Plant
Greensboro, North Carolina

Dear Mr. Morris:

This is in reference to your letter dated August 5, 1988 and received August 11, 1988 requesting access to the White Oak Plant site to conduct an investigation.

In accordance with your request, we are enclosing a signed copy of your letter authorizing the access requested. However, we are surprised to learn that this plant site remains on your CERCLA working list and more surprised that it survived a preliminary assessment. Contrary to the preliminary assessment, to our knowledge, there has never been any land application or burial of any waste materials on this property. The only regulated environmental activities at this plant are the discharge of treated wastewater pursuant to an NPDES permit and air emissions pursuant to a permit issued by the State of North Carolina. We are not aware of any basis, reasonable or otherwise, to believe there may be a release or threat of a release of a hazardous substance, pollutant or contaminant that would distinguish White Oak from any other industrial facilities having permitted discharges and emissions.

You requested permission for access beginning August 22, 1988. Due to vacations scheduled by our environmental engineering staff, we would like for your work on site to be scheduled during the week beginning September 5, 1988 and this is set forth as an amendment to the second paragraph of your letter. The production facility will not be operating during this week, but the dye waste disposal plant will be operating. We would like to split samples and will provide our own containers for this purpose.

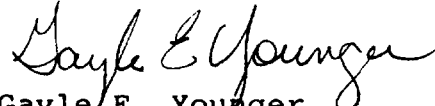
Cone 

We will appreciate receiving a call prior to the actual visit to the site so the necessary people can be available to discuss any scheduling changes that may be necessary.

If you have any questions or need additional information, please give me a call.

Very truly yours,

CONE MILLS CORPORATION

A handwritten signature in cursive script, reading "Gayle E. Younger".

Gayle E. Younger
Senior Attorney

GEY:ms

cc: Tom Alspough

AUG 11 1988



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

AUG 5 1988

4WD-SISB

Rec'd by EPA
8/12/88
RM

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Gayle Younger
Legal Department
Cone Mills Corporation, White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

RE: Cone Mills Corporation, White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

Dear Ms. Younger:

The United States Environmental Protection Agency (EPA), pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, is planning to conduct an investigation of the above referenced site. The Cone Mills Corporation White, Oak Plant is located at 2420 Fairview Street in Greensboro, Guilford County, North Carolina. EPA has reason to believe that there may be a release or threat of a release of hazardous substances from the site into the surrounding environment. The purpose of the investigation is to determine the nature and extent of contamination at the site and to determine what, if any, further response action would be appropriate.

EPA is requesting permission for access to your property beginning on or about August 22, 1988 and continuing through completion of the investigation on or about August 25, 1988. *Activities to be conducted during the investigation include:

1. Inspect, sketch, and photograph the premises;
2. Collect surface and subsurface soil samples;
3. Collect groundwater and subsurface water samples;

* Cone Mills requests the work on site to be scheduled during the week of September 5, 1988.

4. Collect sediment samples;
5. Conduct air monitoring;
6. Transportation of equipment onto and about the site as necessary to accomplish the activities above, including trucks and sampling equipment.

The above sampling activity will be conducted by personnel from EPA Region IV's Field Investigation Team (FIT). Doug Chatham of FIT will contact you prior to the actual site visit to make final arrangements and note any changes.

Split samples will be made available if requested. However, you will be required to furnish your own containers as well as your own laboratory analyses.

Pursuant to Section 104 of CERCLA, as amended by SARA, Congress has given EPA express authority to conduct this investigation. Further, CERCLA authorizes designated EPA representatives to enter and obtain samples from any facility where there exists a reasonable basis to believe there may be a release or threat of release of a hazardous substance or pollutant or contaminant (42 U.S.C. 9604(e)). Should you deny this request for access to your property, an administrative order directing compliance with the request may be issued, civil action to compel compliance may be initiated, or access may be obtained by any other lawful means. Under certain circumstances, a court may impose a civil penalty in an amount not to exceed \$25,000 per day for failure to grant access or comply with any administrative order directing that access be granted.

If you will voluntarily give permission for EPA to conduct the above described investigation of the Cone Mill Corporation, White Oak Plant property, please sign and return the original of this letter to:

Robert Morris
Environmental Engineer
Site Investigation and Support Branch
U.S. EPA-Region IV
345 Courtland Street, N.E.
Atlanta, GA 30365

Your signature will represent your agreement to grant EPA, its contractor(s), subcontractor(s) and employees, access to your property during the periods stated and for the purpose of conducting some or all of the activities described above, and any other activity deemed necessary by EPA to properly perform the investigation. Failure to respond to this letter within seven (7) calendar days of your receipt of this letter will be deemed a denial of the request for access to your property.

A copy of this letter is enclosed for your records. If you have any questions, please contact Robert Morris at (404) 347-5065 or Mary Curnane, Assistant Regional Counsel at (404) 347-2641.

Your cooperation in this matter is appreciated.

Sincerely,

Patrick M. Tobin

Patrick M. Tobin, Director
Waste Management Division

Signature: *Gayle E. Younger*

Date: *August 17, 1988*

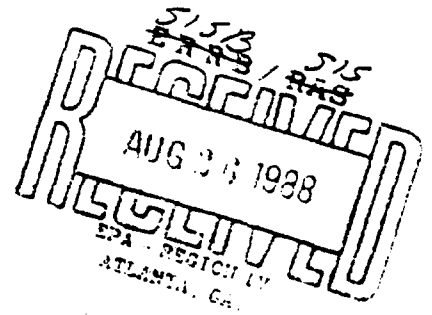
Enclosure

cc: Lee Crosby, NC DHR
Doug Chatham, NUS Corporation
Mary Curnane, ORC



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
ENVIRONMENTAL SERVICES DIVISION
ATHENS, GEORGIA 30613



MEMORANDUM

DATE: August 17, 1988

SUBJECT: Site Screening Investigation Study Plans

FROM: Pat Stamp, Laboratory Quality Control Specialist *Pat Stamp*
Laboratory Evaluation & QA Section

TO: Narindar Kumar
Site Assessment Section
Site Investigation & Support Branch
Waste Management Division

THRU: Wade Knight, Chief *WK*
Laboratory Evaluation & QA Section

We have reviewed three subject documents and have the following comments:

A. Agrico Chemical #2, Greensboro, NC

1. Page 2, Section 1.2 -- The Scope of Work should address site-specific activities. The last bulleted item states surface soil, subsurface soil, surface water and nearest potable well will be sampled; however, two sediment locations are also included in Section 3.0, Table 3-1 and Figure 3-1.
2. Page 8, Figure 3-1 -- The location for composite soil sample AG-SS-02 appears to be more in the area of a background sample rather than in the area of the impoundments.

B. Cone Mills Corp., White Oak Plant, Greensboro, NC

No comments.

C. Carolawn Company, Inc., Kernersville, NC

Page 2, Section 1.2 -- The Scope of Work should address site-specific activities. The last bulleted item states surface soil, subsurface soil and nearest potable well will be sampled; however, two sediment and one monitoring well locations are also included in Sections 2.0, 2.1, 2.2, Table 2-1 and Figure 2-1.

Sent 8/9/88
P 700 132 619
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3800, June 1985

Sent to <i>Gayle Younger</i>	
Street and No	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

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Sincerely,

/s/ Patrick M. Tobin

Patrick M. Tobin, Director
Waste Management Division

Signature: _____

Date: _____

Enclosure

cc: Lee Crosby, NC DHR
Doug Chatham, NUS Corporation
Mary Curnane, ORC

4WD-SAS

RM 8/3
Morris

4WD-SAS

AKK
Kumar

4WD-SISB

RS/A
Lucius

4WD

Tobin

rm:zc:08/03/88:5065

AUG 5 1988

4WD-SISB

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Gayle Younger
Legal Department
Cone Mills Corporation, White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

RE: Cone Mills Corporation, White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

DATE: 8/11/88

SUBJECT: Cone Mills Corp., White Oak Pt., N.C.

FROM: Robert Morris Robert Morris

TO: File

On 8/11/88, I received a telephone call from Harold Bynum an attorney for Cone Mills Corp. Mr. Bynum telephoned because he had received the access letter from EPA requesting site access by FIT for the White Oak Pt. for 8/22-25/88. He was concerned ~~that~~ that EPA wanted to do an SSI on the site because of recent publicity by local ^{news organizations} ~~newspapers~~ concerning the plant's water discharges (which Mr. Bynum says are under NPDES permits). I told him this was not the case. EPA is doing an SSI on the site to clarify and/or document information contained in the PA on the site. I agreed to send him a copy of the PA report.

cc: Mary Curnane, ORC